

FOR	OFFICIAL	USE	ONLY
	1		

FILE SYMBOL

REGISTRATION NO.

42750

# CONFIDENTIAL STATEMENT OF FORMULA ENCLOSED

DATE	SUBMITTED BY (V)					
SUBMITTED	APPLICANT	BASIC SUPPLIER				
2-19-98						
		-				
	·					
	<del></del>					
		<del></del>				

Do Not Write Comments, Formula, or Parts of Formula on This Envelope

### NOTE

It shall be unlawful--for any person to use for the person's own advantage or to reveal, other than to the Administrator, or officials or employees of the Environmental Protection. Agency or other Federal executive agencies, or to the courts, or to physicians, pharmacists, and other qualified persons, needing such information for the performance of their duties, in accordance with such directions as the Administrator may prescribe, any information acquired by authority of the "Federal Insecticide, Fungicide, and Rodenticide Act" which is confidential under this Act.

RIN # 0495-01	
EPA Rey Jacket # 42750-40	
rage is not included in this copy.	
Pages 3 through 10 are not included	

The material not included contains the following type information:	of
Identity of product inert ingredients.	
Identity of product impurities.	
Description of the product manufacturing process.	
Description of quality control procedures.	
Identity of the source of product ingredients.	
Sales or other commercial/financial information.	
A draft product label.	
The product confidential statement of formula.	
Information about a pending registration action.	-
FIFRA registration data.	
The document is a duplicate of page(s)	-
The document is not responsive to the request.	

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

**EPA** 

United States

## **Environmental Protection Agency**

Office of Pesticide Programs (7505C) Washington, DC 20460 32 13-3

## Notice of Supplemental Distribution of a Registered Pesticide Product

#### Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product	Distributor Company Number
042750-406	5 55467
Note: Do not submit di	stributor product labels
me of Registered Product (basic product name accepted by EPA)	Distributor Product Name
DICAMBA	TENKOZ DICAMBA
Name and Address of Distributor (Type; Include ZIP code)	
TENKOZ INC.	
100 North POIN	T CENTER E.  A 30202 30022  ons Before Signing
SVITE 330	0 00 0000
ALDharetta 6	4 30202 30022
Read All Conditio	ns Before Signing
	•
The distributor product must have the same composition a	as the basic product.
•	ged by the same person who manufactures and packages the
registered basic product.	a plaine as the basic product, assuided bourover that
The labeling for the distributor product must bear the same specific claims may be deleted if by doing so, no other characteristics.	
4. The product must remain in the manufacturer's unbroken	
The label must bear the EPA registration number of the bar	asic product, followed by a hyphen and the distributor's
company number.	
6. Distributor product labels must bear the name and address	s of the distributor qualified by such terms as "packed for",
"distributed by"; or "sold by" to show that the name is n	to that of the manufacturer.
All conditions of the basic registration apply equally to dis- to see that all distributor labeling is kept in compliance wit	tributor products. It is the responsibility of the basic registrant
	ibutor
We intend to market our product under the Distributor Product Name specified to	above, subject to the conditions specified on this Motice.
Signature and Title of Pistriputor	Date 0 1 000
KINDER KER NOW	12-21-00
- POUVAINA TOTAL	
Regis	strant
I agree that the distributor named above may distribute and self the Distributor F	Product specified above, subject to the conditions specified on this Notice.
	Date
Signature and Title of Recipitant Reg Mg	1-10-2601
	Maria Ci
EPA Form 8570-5 (Rev. 8-94) Previous editions are obsolete.	١٠٤٠٠ ١٠ع٠ م١

#### PYXIS REGULATORY CONSULTING

11324 17th Ave. Ct. NW Gig Harbor, WA 98332

Phone: 253-853-7369 Fax: 253-853-5516

Email: Janelle@PyxisRC.com

December 12, 2000

#### OVERNIGHT DELIVERY

Joanne Miller (PM23)
Document Processing Desk (CERT)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

RE: Albaugh, Inc. - Request for Gold Seals

Dear Ms. Miller,

Our client, Albaugh, Inc., is requesting gold seal letters for the following registered products:

Albaugh Dicamba DMA Salt, (EPA Reg. No. 42750-40) Albaugh Dicamba SG, (EPA Reg. No. 42750-43) Range Star™, (EPA Reg. No. 42750-55) Albaugh Technical Dicamba Acid (EPA Reg. No. 42750-57)

Please provide multiple originals, six (6) of each if possible. Please provide any alternate brand names you may be aware of on the gold seal letters.

The letters may be sent to: Pyxis Regulatory Consulting Attn: Janelle Whitehouse 11324 17<sup>th</sup> Ave. Ct. NW

Gig Harbor, WA 98332

I am including a Letter of Authorization from Albaugh, Inc. designating Janelle Whitehouse as its agent. Please feel free to contact me should you need additional information. Thank you in advance for meeting this request.

Sincerely,

Juli Ul---Janelle Whitehouse

Pyxis Regulatory Consulting

Enclosure

V

# Albaugh Inc.

#### OFFICE

121 N.E. 18th, St. Ankeny, Iowa 50021

Phone: 515-964-9444 Toll Free: 800-247-8013 Fax: 515-964-7813 120 M

PLANT

4900 Packers Avenue St. Joseph, MO 64504

Phone: 816-228-3377 FAX: 816-238-3938

April 2, 1999

Joanne Miller (PM23)
Document Processing Desk
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
401 M. Street, S.W.
Washington, DC 20460

RE: Letter of Authorization

Dear Ms. Miller:

STATE OF IOWA

COUNTY OF POLK

Please let this letter serve to notify you that Janelle Whitehouse is authorized to represent. Albaugh, Inc., company number 42750, before the U.S. Environmental Protection Agency in all matters regarding our registrations and applications for registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. Section 136 et seq.

If you have any questions, please do not hesitate to contact me.

Stuart I. Feldstein
General Counsel

Cc: Janelle Waitehouse

On this day of April, 1999, before me, a notary public in and for said state and county, personally appeared Stuart I. Feldstein, to me personally known, who being by me duly sworn did say that he is the General Counsel of said corporation and that said instrument was signed on behalf of the said corporation by authority of its board of directors, and the said Stuart I. Feldstein acknowledged the execution of said instrument to be the voluntary act and dead of

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said corporation, by a voluntarily executed.



Notary Public in and for said State and County

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JAN 24 2001

I, Joanne I. Miller, Product Manager of Team Number 23, Herbicide Branch, Registration Division, Office of Pesticide Programs, Office of Prevention, Pesticides and Toxic Substances, United States Environmental ProtectionAgency ("EPA"), certify that the pesticide product (s) listed below is, as of the date of this letter, a registered product under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, and that as such, the product(s) may be sold and marketed in the United States of America as authorized and limited by FIFRA. A true and correct copy of the productlabel approved by EPA is attached to accompany this letter.

Registration of this product(s) with EPA also denotes that the registrant listed below is responsible for ensuring full compliance with all the laws of the United States of America, or governing jurisdiction, regarding the sale, storage and/or disposal of the product(s). Further, the recipient of this letter is on notice that the referenced registration and/or the accompanying label may change subsequent to the date of this letter. EPA assumes no responsibility to notify the recipient of this letter of any change in the status of the registration(s) and/or the product label for the product(s) listed below.

EPA has issued registration number(s) for the product(s) listed below to:

Albaugh, Inc. 121 NE 18<sup>th</sup> Street Ankeny, Iowa 50021

EPA Reg No

42750-40

Name of Product

ALBAUGH DICAMBA DMA Salt

anne I. Miller

Will Forman Control of the Control o

Joanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505C)

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Please Read All Instructions Sefere Completing this form (Form must be typed). Form Approved. OMS No., 2070-0044

**ŞEPA** 

#### United States Environmental Protection Agency Office of Pesticide Programs (H7505C) 401 M Street SW

Washington, DC 20460

# Notice of Supplemental Distribution of a Registered Pesticide Product

#### Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationary, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product Distributor Company Number 9779 () 42750-406 Note: Do not submit distributor product labels \* The of Registered Product (basic product name accepted by EPA) Distributor Product Name Sterling DICAMBA DMA SALT

Name and Address of Distributor (Type; include ZIP code)

Terra International, Inc. P.O. Box 6000 Sioux City, IA 51102-6000

#### Read All Conditions Before Signing

- 1. The distributor product must have the same composition as the basic product.
- 2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
- 3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
- 4. The product must remain in the manufacturer's unbroken container.
- 5. The label must bear the EPA registration number of the basic product, followed by a hypen and the distributor's company number.
- 6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for..., "distributed by..."; or sold by..." to show that the name is not that of the manufacturer.
- 7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

#### Distributor

We intend to merket our product under the Distributor Product Name specified above, subject to the conditions specified on this Natice.

Steve Rogosheske Theolegr. Registration Specialist

824-95

#### Registrant

I agree that the distributor named above may distribute and self the Distributor Product specified above, subject to the conditions specified on this Notice.

A Comment

Signature and Title of Registrant Alice Walker
Regulatory Consultant

Date 9-24-98

# DEC 28 1999

Ms. Janelle Whitehouse Agent for ALBAUGH, INC. **PYXIS Regulatory Consulting** 11324 17th Avenue Court N.W. Gig Harbor, WA. 98332

Dear Ms. Whitehouse:

The Agency has reviewed your application for an alternate confidential statement of formula (CSF) for EPA Registration 42750-40. The alternate CSF dated 12-2-99 is acceptable. A copy of the CSF will be added to the file for the subject product.

Sincerely,

Sherada D. Hobgood

Minor Formulation Review Coordinator

Registration Division (7505C)

<b>⊗EPA</b>	United State Environmental Protect	<del>-</del> -	, <u> </u>	Registrati Amendme			
<b></b>	Washington, DC		L	Other	266823		
	- Applica	·	ticide - Sectio				
1. Company/Product Num 4275040	ber		2. EPA Product Manager J. Miller 3. Proposed Classification				
4. Company/Product (Nar Albaugh, Inc.	Dicamba DMA Salt	PM	23		None Restricted		
5. Name and Address of Applicant (Include ZIP Code) Albaugh, Inc. c/o Janelle Whitehouse 11324 17th Ave Ct. NW Gig Harbor, WA 98332			6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No.				
Check if	his is a new eddress	Pr	oduct Name	<del>''</del>	·		
-		Section	- II				
Notification - Expl	esponse to Agency letter dated ain below.  bional page(s) if necessary. (For selections of Alternate Formulations			lication.			
······································	<del></del>	Section	- III	<del></del>			
1. Material This Product	Will Be Packaged In:						
Child-Resistant Packaging Yes* No  * Certification must submitted	Yes No	Yes No	No. per		ontainer Metel Plestic Glass Paper Other (Specify)		
3. Location of Net Conter	ts Information 4. Size(s) Container	Retail Container	5.	Location of Label On Label On Labelin	Directions g accompanying product		
6. Manner in Which Labe	is Affixed to Product Line	thograph per glued enciled	Other _	-			
	LJSt	Section	- IV	******			
	ete items directly below for identific	·····		necessary, to proc	ess this application.)		
1. Contact Point (Comple			·····	Т	<del></del>		

3. Title

5. Date

Regulatory Consultant

December 2, 1999

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

both under applicable law.

Janelle Whitehouse

on landa i in til designa i in nyaétah i ina angan untang**ang apatrang pila seraka kawas** galagsan

July W

2. Signature

4. Typed Name

White - FPA File Conv. (original)

Yellow - Applicant Cop

#### PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

<u>INSTRUCTIONS</u>: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following meterial must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

  Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that partsins to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate black if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retal Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Steas of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Matther in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, results likely, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only

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11324 17<sup>th</sup> Ave. Ct. NW Gig Harbor, WA 98332

Phone: 253-853-7369 Fax: 253-853-5516 Email: JLW@nwrain.com

December 2, 1999

PRIORITY MAIL

Joanne Miller (PM23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

RE: Notification of Alternate Formulation for Dicamba DMA Salt per PR Notice 98-10 EPA Reg. No. 42750-40

Dear Ms. Miller,

This letter constitutes a notification of an Alternate Formulation for Dicamba DMA Salt, EPA Reg. No. 42750-40. In support of this notification, we submit the following documents:

- 1. Completed Application for Registration (EPA Form 8570-1)
- 2. Two (2) Original Confidential Statements of Formula (CSF) (EPA Form 8570-4)
- 3. Letter of Authorization

Please do not hesitate to contact me if you have any questions or need any additional information.

Sincerely,

Janelle Whitehouse

Enclosures

cc:

Glen O'Brien; Albaugh, Inc.

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# Application for Registration (cont'd)

RE: 42750-40

Section II	
EXPLANATION:	
	,
This notification is consistent with the provisions of PR Notice 98-10 152.46, and no other changes have been made to the labeling or the co this product. I understand that it is a violation of 18 U.S.C. Sec. statement to EPA. I further understand that if this notification is not Notice 98-10 and 40 CFR 152.46, this product may be in violation of enforcement action and penalties under sections 12 and 14 of FIFRA.	nfidential statement of formula of 1001 to willfully make any false t consistent with the terms of PR
Paulle whit	12/2/4
Janelle Whitehouse Regulatory Consultant	Date

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# Albaugh Inc.

OFFICE

121 N.E. 18 th. St. Ankeny, Iowa 50021

Phone: 515-964-9444 Toll Free: 800-247-8013 Fax: 515-964-7813

April 2, 1999



PLANT

4900 Packers Avenue St. Joseph, MO 64504

Phone: 816-238-3377 FAX: 816-238-3938

Joanne Miller (PM23)
Document Processing Desk
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
401 M. Street, S.W.
Washington, DC 20460

RE: Letter of Authorization

Deat Ms. Miller.

Please let this letter serve to notify you that Janelle Whitehouse is authorized to represent Albaugh, Inc., company number 42750, before the U.S. Environmental Protection Agency in all matters regarding our registrations and applications for registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. Section 136 et seq.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Stuart I. Feldstein General Counsel

Cc: Janelle Whitehouse

STATE OF IOWA

SS.

COUNTY OF POLK

On this day of April, 1999, before me, a notary public in and for said state and county, personally appeared Stuart I. Feldstein, to me personally known, who being by me duly swom did say that he is the General Counsel of said corporation and that said instrument was signed on behalf of the said corporation by authority of its board of directors, and the said Stuart I. Feldstein acknowledged the execution of said instrument to be the voluntary act and deed of said corporation, by it voluntarily executed.

TARA MEREDITH
MY COMMISSION EXPIRES
Sometiber 17, 1999

Notary Public in and for said State and County

H

Ms. Alice Walker, Ph.D. Albaugh, Inc. c/o Alice Walker Consulting 811 Country Club Drive Senatobia, MS 38668

MAR 15 1999

Dear Ms. Walker:

Subject: Technical Formula Change Amendment - Change Source Of

Registered Active Ingredient Albaugh Dicamba DMA Salt

EPA Registration Number 42750-40

Dicamba SG

EPA Registration Number 42750-43

Your amendment application submission dated

December 21, 1998

The basic Confidential Statement of Formula (CSF), dated 12/21/98, is acceptable and supercedes all previously submitted basic formulation CSFs.

Sincerely Yours,

Joanne I. Miller Product Manger (23) Herbicide Branch Registration Division (7505C)

		·	co	NCURRENCES		·		
SYMBOL .	7505C							
SURNAME >	MHoward							٦
\ <u>TE</u> →	Mar 10, 1999	· 	]		<u> </u>			<u> </u>
Form 132	0-1 (12-70)					OF	ICIAL FILE COP	

## Certified Mail

December 21, 1998

Document Processing Desk (Amnd)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

Attn: Ms. Joanne Miller

Subject:

Albaugh Dicamba SG (EPA Reg. No. 42750-43)

Albaugh Dicamba DMA Salt (EPA Reg. No. 42750-40)

New Basic CSF's

lice Walker

Dear Ms. Miller:

ALBAUGH, INC. wishes to change its source of registered active ingredient in subject products to contain its own recently registered Dicamba Technical. To this end, please find enclosed applications for amended registration and new basic CSF's. If you should have questions during the review process, please do not hesitate to contact me.

Sincerely,

Alice Walker, Ph.D.

Regulatory Consultant

/s

**Enclosures** 

cc: Glen O'Brien





#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

01/06/99

ALICE WALKER
ALICE WALKER CONSULTING
811 COUNTRY CLUB DRIVE
SENATOBIA MS 38668

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

PRODUCT NAME: ALBAUGH DICAMBA DMA SALT COMPANY NAME: ALICE WALKER CONSULTING

OPP IDENTIFICATION NUMBER: 253416 EPA REGISTRATION NUMBER: 42750-40

EPA RECEIPT DATE: 12/30/98

SUBJECT: RECEIPT OF AMENDMENT

#### DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Joanne Miller, Product Manager 23, at (703)-305-7830.

Sincerely,

Front End Processing Staff Information Services Branch

Information Resources and Services Division

H

<b>ŞEPA</b>	United States Environmental Protect	1	Registra	
WLI A	Washington, DC 2		x Amenda Other	nent 253416
	Applicat	ion for Pesticide -	Section I	
1. Company/Product No 42750-40	umber	2. EPA Produc Joann	et Menager ne I. Miller	3. Proposed Classification
4. Company/Product (N Albaugh Dica	eme) amba DMA Salt	PM#	23	X None Restricted
5. Name and Address of Albaugh, Ind c/o Alice Wa 811 Country Senatobia, 1	of Applicant (Include ZIP Code)  alker Consulting  Club Drive	(b)(i), my pro to:	d Review. In accordant duct is similar or identi	nce with FIFRA Section 3(c)(3) cal in composition and labeling
	· · · · · · · · · · · · · · · · · · ·	Section - II	- "44 - "	
Notification - Ex	plain below.  ditional paga(s) if necessary. (For sect	Other	ncy letter dated Too" Application. r-Explain below	ent
1. Material This Produc	1 Will Be Packaged In:	Section - III		
Child-Resistent Package Yes* No	ng Unit Packaging Yes No	Water Scluble Packagi Yes No	ng 2. Type of (	Container Metal Plastic Glass
* Certification mus be submitted	If Tyes. No. per Unit Packaging wgt. container		nteiner	Peper Other (Specify)
3. Location of Nat Cont	<del></del>	Ratail Container	5. Location of Lab	<del> </del>
6. Manner in Which Leb	Pap	ograph er glued noifed	Other	
della sales de la companya de la co	rgio de trata de la partir de la compania del compania del compania de la compania del compania del compania de la compania de la compania de la compania de la compania del c	Section - IV	oligo et el oligidad (1915). No el oligidad (1915) el oligidad (1915).	00000
1. Contact Point (Comp	plete items directly below for identifice	tion of individual to be conti	ected, if necessary, to pro	cess this application.)
Nama Alice Walker	r, Ph.D.	Title Regulatory	į.	Telaphona No. (Includa Area Coda) 601–562–5995 รู้จะรัฐรู
	Certific statements I have made on this form at at any knowingly false or misleading st able lew.	nd all attachments thereto a		1 6555
2. Signature	Walken	3. Title  Regulatory	Consultant	******
4. Typed Name		5. Date	·	$\neg$
Alice Walker	r Ph D	12-21-98		<sub>ν-ν-</sub> .σ

White PPA File Conv (original) Yellow - Applicant Con

#### PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing date sources, gathering and maintaining the date needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Weshington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect-to-Citation of Data (EPA Form 8570-29). (If not exempted by 40 CFR 152.81 (b) (4));
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption-Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION | - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.

- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of automission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new regis ງະຕິດຳ or applicable amendments.

- 1.7 Type of Packaging Chack the appropriate block if your product will be packaged in the indicated packaging types."

  https://doi.org/10.1007/j.jps.1007/j.ps.1007/j.ps.1007/j.jps.1007/j.jps.1007/j.ps.1007/j.jps.1007/j.jps.1007/j.jps.1007/j
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in whith Jakei is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Content Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

) Y.



Tis. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

<u>X</u> Registration

\_ Reregistration

EPA Egg. Number:

Date of Issuance:

SEP 3 1998

42750-40

Term of Issuance:

Conditional

Name of Pesticide Product:

Albaugh Dicamba DMA Salt

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Albaugh, Inc. 121 N.E. 18th St. Ankeny, Iowa 50021

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EFA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read "EPA Reg. No. 42750-40".
  - b. Revise the glove requirement for early-entry to treated areas in the Agricultural Use Requirements box to read "chemical-resistant gloves in category A" instead of "waterproof gloves".
  - c. Add a Note To Physician in close proximity to the Statement of Practical Treatment as follows:

"Probable mucosal damage may contraindicate the use of gastric lavage."

Signature of Approving Official:

Date:

1998

SEP 3

page 2 EPA Reg. No. 42750-40

- d. Correct the typographical errors which are highlighted on pages 4,11,26,33 and 34:
  - p.4: Capitalize the "H" in "However".
  - p.11:Change "penetrates" to "penetrants".
  - p.26:Change "rights-" to "rights-of-way".
  - p.33:Change "weds" to "weeds".
  - p.34:Delete the comma after the word "Woody"
- 3. Submit one copy of the revised final printed label before you release the product for shipment

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Copies of the Agency's product chemistry and acute toxicity data reviews are also enclosed.

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505C)

Enclosures

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# ALBAUGH

# DICAMBA DMA SALT

For Weed Control in Corn, Sorghum, Small Grains, Pasture, Hay, Rangeland, General Farmstead (Non-Cropland), Fallow, Sugarcane, Asparagus, Turf and Grass Seed Crops

ACTIVE INGREDIENT:	
Dimethylamine salt of dicamba*	48.2%
OTHER INGREDIENTS:	
TOTAL	100.0%

<sup>\*</sup>This product contains 40.0% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon.

#### KEEP OUT OF REACH OF CHILDREN

# **WARNING-AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

See left panel for additional PRECAUTIONARY STATEMENTS.

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EPA Est. No. 42750-

**NET CONTENTS** 

Manufactured By: Albaugh, Inc. Ankeny, Iowa 50021

FPA Reg No 42750.

SEP 3 [998] Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered ander EPA Reg. No.

ACCEPTED with COMMENTS

\_\_\_\_Liters

\_Gals.

42750-40

### PRECAUTIONARY STATEMENTS

#### WARNING

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed.

# PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves in category A, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washivaters. Apply this product only as directed.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any

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requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls water proof gloves, shoes plus socks, and protective eyewear.

#### STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.

#### STORAGE

Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

#### PESTICIDE DISPOSAL

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

METAL CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PLASTIC CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer

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for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**REFILLABLE CONTAINERS:** If this container has been designated by the supplier as refillable, return empty container to the place of purchase.

#### **GENERAL INFORMATION**

The following directions apply to all uses of DICAMBA DMA SALT. Additional precautions and restrictions will be found in each specific use section. Do not treat irrigation ditches or water used for crop irrigation or domestic uses. Do not apply this product through any type of irrigation system.

#### MIXING AND APPLICATION

Unless otherwise specified under the individual use headings of this label, the following directions apply to all crop and noncrop uses of DICAMBA DMA SALT. Refer to individual use sections for additional precautions, restrictions, application rates and timings.

DICAMBA DMA SALT is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, a compatibility test (see COMPATIBILITY TEST below) should be made prior to tank mixing.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. The week, do not use aerial application equipment if spray particles can be carried by wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Apply 3 to 50 gallons of diluted spray per treated acre when using ground application equipment, or 1 to 10 gallons of diluted spray per treated acre (2 to 20 gallons of diluted spray per acre for preharvest uses) in a water-based carrier when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays.

Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

To avoid uneven spray coverage, DICAMBA DMA SALT should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid disturbing (e.g., cultivating or mowing) treated areas for at least 7 days following application.



#### SENSITIVE CROP PRECAUTIONS

DICAMBA DMA SALT may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to DICAMBA DMA SALT during their development or growing stage. follow the precautions listed below when using DICAMBA DMA SALT.

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of DICAMBA DMA SALT with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas
  where sensitive crops and plants are growing, or when temperature inversions exist. Do not
  spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction
  of adjacent sensitive crops. Leave an adequate buffer zone between area to be treated and
  sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays.
- Use coarse sprays to avoid potential herbicide drift. Select nozzles which are designed to produce minimal amounts of fine spray particles. Examples of nozzles designed to produce coarse sprays via ground applications are Delavan Raindrops, Spraying Systems XR flat fans or large capacity flood nozzles such as D10, TK10, or greater capacity tips. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gpa, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult with your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally approved drift-reducing additives may be used.
- Do not apply DICAMBA DMA SALT adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85°F as drift is more likely to occur.
- To avoid injury to desirable plants, equipment used to apply DICAMBA DMA SALT should be thoroughly cleaned (see PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

All crop uses of DICAMBA DMA SALT are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crops that will be plowed under, do not follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as drought, poor fertility, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

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#### BAND TREATMENTS

DICAMBA DMA SALT may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

Band width in inches Row width in inches	x	Broadcast rate per treated acre	=	Band rate per treated acre
Band width in inches Row width in inches	x	Broadcast volume per treated acre	=	Band volume per treated acre

#### **COMPATIBILITY TEST**

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

# Amount of Herbicide to Add to One Pint of Spray Carrier (Assuming Volume is 25 Gallons per Acre)

HERBICIDE	RATE	LEVEL
FORMULATIONS	PER ACRE	TEASPOONS
Dry	1 lb	1 1/2
Liquid	1 pt	1/2

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer).

# PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of DICAMBA DMA SALT or tank mixes of DICAMBA DMA SALT plus 2,4-D amine:

- 1) Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
- 2) Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the beam and nozzles. Let the solution stand for several hours, preferably overnight.
- 3) Flush the solution out of the spray tank through the boom.

- 4) Remove the nozzles and screens and flush the system with two full tanks of water.
- The steps listed below are suggested for thorough cleaning of spray equipment used to apply DICAMBA DMA SALT as a tank mix with wettable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations. DICAMBA DMA SALT tank mixes with water-dispersible formulations require the use of a water/detergent rinse:
- 5) Complete step 1.
- 6) Fill tank with water while adding 2 lbs. of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 7) Flush the detergent solution out of the spray tank through the boom.
- 8) Repeat step 1, and follow with steps 2, 3, and 4.

#### **GENERAL WEED LIST**

This is a general list of weeds which may be treated with DICAMBA DMA SALT in accordance with this label as recommended under the RATES AND TIMING sections of the individual use headings. Proper usage of this product will give control of growth suppression of any annual, biennial, and perennial broadleaf weeds, and many woody brush and vine species including:

#### **ANNUALS**

Amaranth, Spiny (Spiny Pigweed)

Aster, Slender

**Bedstraw** 

Beggardweed, Florida Broomweed, Common

Buckwheat, Wild

Buffalobur

Burclover, California

Burcucumber

Buttercup Roughseed

Carpetweed

Catchfly, Nightflowering

Chamomile, Corn Chickweed, Common Clovers (Annual)

Cockle, Corn

Cockle, Cow

Cocklebur, Common

Croton, Tropic Croton, Woolly Daisy, English

Evening Primrose, Cutleaf

Mustard (Yellowtops)

Nightshade, Black

Pennycress, Field (Fanweed, Frenchweed

Stinkweed)

Pepperweed, Virginia (Peppergrass)

Pigweed, Prostrate

Pigweed, Redroot (Carelessweed)

Pigweed, Rough Pigweed, Smooth

Pigweed (triazine resistant)

Pigweed, Tumble

Poorjoe

Puncturevine

Purslane, Common

Pusley, Florida

Radish, Wild

Ragweed, Common

Ragweed, Giant (Buffaloweed)

Ragweed, Lance-Leaf

Rubberweed, Bitter (Bitterweed)

Sesbania, Hemp

Shepherdspurse



Fleabane, Annual

Goosefoot, Nettleleaf

Henbit

Jimsonweed Knotweed Kochia

Ladysthumb

Lambsquarters, Common

Lambsquarters (triazine resistant)

Lettuce, Prickly Mallow, Common Mallow, Venice

Mare's Tail (Horseweed)

Mayweed

Moringglory, Ivyleaf Moringglory, Tall Mustard, Tansy Mustard, Wild Sicklepod

Sida, Prickly (Teaweed)

Smartweed, Green

Smartweed, Pennsylvania

Sneezeweed, Bitter Sowthistle, Annual Sowthistle, Spiny Spikeweed, Common Spurge, Prostrate Spurry, Corn Starbur, Bristly Sumpweed, Rough

Sunflower, Common (Wild)

Sunflower, Volunteer Thistle, Russian Velvetleaf Waterhemp

Waterprimrose, Winged Wormwood, Annual

#### **BIENNIALS**

Burdock, Common

Carrot, Wild (Queen Anne's Lace)

Cockle, White

Evening Primrose, Common

Geranium, Carolina

Gromwell

Knapweed, Diffuse Knapweed, Spotted Mallow, Dwarf Plantain, Bracted

Ragwort, Tansy Starthistle, Yellow

Sweetclover

Teasel

Thistle, Bull
Thistle, Milk
Thistle, Musk
Thistle, Plumeless

#### **PERENNIALS**

\*Alfalfa

Artichoke, Jerusalem

Aster, Spiny

Aster, Whiteheath Beadstraw, Smooth Bindweed, Field

Bindweed, Hedge Blueweed, Texas

\*Bursage (Bur Ragweed, Lakeweed,

Povertyweed)

Milkweed, Climbing

Milkweed, Common Milkweed, Honeyvine

Milkweed, Western Whorled

Nettle, Stinging

Nightshade, Silverleaf (White Horser ettle)

Onion, Wild

\*Plantain, Broadleaf Plantain, Buckhorn

Pokeweed

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Bursage, Woollyleaf (Lakeweed)

Buttercup, Tall Campion, Bladder Chickweed Field

Chickweed (Mouseear, Canada)

Chicory

\*Clover, Hop

\*Dandelion, Common

\*Dock, Broadleaf (Bitterdock)

\*Dock, Curly Dogbane, Hemp

\*Dogfennel (Cypressweed)

Fern, Bracken Garlic, Wild

Goldenrod, Canada Goldenrod, Missouri Goldenweed, Common

Hawkweed Henbane, Black Horsenettle, Carolina

Ironweed

Knapweed, Black Knapweed, Russian Ragweed, Western

Redvine

Sericia Lespedeza Smartweed, Swamp Snakeweed, Broom

\*Sorrel, Red (Sheep Sorrel)

Sowthistle

Sowthistle, Perennial

Spurge, Leafy

Sundrop, Halfshrub (Evening Primrose)

Thistle, Canada Toadflex, Dalmation Tropical Soda Apple

Trumpetcreeper (Buckvine)

Vetch

Waterhemlock

Waterprimrose, Creeping

\*Woodsorrel, Creeping Common Yellow

Wormwood, Common Wormwood, Louisiana

\*Yankeeweed Yarrow, Common

#### WOODY

Alder Ash Aspen Basswood Beech Birch \*Blackberry

\*Blackgum

\*Cedar Cherry

Chinquapin

Cottonwood

\*Creosotebush Cucumbertree

Locust, Black

Maple Mesquite Oak

Oak, Poison Olive, Russian Persimmon, Eastern

Pine

\*Plum Sand (Wild Plum)

**Poplar** 

Rabbitbrush

\*Redcedar, Eastern \*Rose, McCartney

\*Rose, Multiflora

<sup>\*</sup>Noted perennials may be controlled using DICAMBA DMA SALT at rates lower than those recommended for other listed perennial weeds. (See APPLICATION RATES AND TIMING section in this label.)

\*Dewberry
\*Dogwood
Elm
Grape
\*Hawthorn, (Thornapple)
Hemlock
Hickory
Honeylocust
Honeysuckle

Sagebrush, Fringe

Sassafras
Serviceberry
Spicebush
Spruce
Sumac
\*Sweetgum
Sycamore
Tarbush
Willow
Witchhazel
\*Yaupon

\*Yucca

\*Growth Suppression

Hornbeam

Huckleberry Huisache

Ivy, Poison

Kudzu

# FIELD, SEED\*, POPCORN\* AND SILAGE CORN

\*Do not apply DICAMBA DMA SALT to seed corn or popcorn without first verifying with your local seed corn company (supplier) the DICAMBA DMA SALT selectivity on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Observe all precautions, mixing and application instructions.

DICAMBA DMA SALT is not registered for use on sweet corn.

Direct contact of DICAMBA DMA SALT with corn seed must be avoided. If corn seeds are less than 1 1/2 inches below the surface, delay application until corn has emerged.

Up to 2 applications of DICAMBA DMA SALT may be made during a growing season. Do not exceed a total of 1 1/2 pints of DICAMBA DMA SALT Herbicide per treated acre per crop year. Allow two weeks or more between applications. See appropriate section for rate information. For combination options or sequential treatments, refer to appropriate section.

Applications of DICAMBA DMA SALT to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage.

Agriculturally approved surfactants or sprayable fertilizers (1/2 to 1 gallon per acre of 28%, 30% or 32% urea ammonium nitrate or 2.5 pounds per acre spray grade ammonium sulfate<sup>1</sup>) may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

<sup>1</sup>Not for use in California.

Do not use adjuvants containing penetrates such as petroleum-based oils after crop emergence or crop injury may result.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

Several synthetic pyrethroid insecticides are labeled for tank mix applications of DICAMBA DMA SALT. Refer to their label for specific recommendations.

# WEEDS CONTROLLED

DICAMBA DMA SALT will control many annual broadleaf weeds or give growth suppression of many perennial broadleaf weeds commonly found in corn. (Refer to the GENERAL WEED LIST.)

For best performance, make application when weeds have emerged and are actively growing.

Preemergence control of cocklebur, velvetleaf, and jimsonweed may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

# PREPLANT/PREEMERGENCE IN NO-TILLAGE CORN

Applications of DICAMBA DMA SALT may be made before, during, or after planting to emerged and actively growing broadleaf weeds. Apply DICAMBA DMA SALT at 1 pint per treated acre on medium or fine textured soils containing 2% or greater organic matter. Use 1/2 pint per treated acre on coarse textured soils (sand, sandy loam, and loamy sand) or medium and fine textured soils with less than 2% organic matter.

When planting into a legume sod (e.g., alfalfa or clover), apply DICAMBA DMA SALT after 4 to 6 inches of regrowth has occurred.

#### PREEMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN

DICAMBA DMA SALT may be applied after planting and prior to corn emergence. Application at 1 pint per treated acre may be made to medium or fine textured soils which contain 2% or greater organic matter. DO NOT apply to coarse textured soils (sand, sandy loam, and loamy sand) until after crop emergence (see EARLY POSTEMERGENCE uses below).

Preemergence application of DICAMBA DMA SALT does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) which concentrate treated soil over seed furrow.

# EARLY POSTEMERGENCE (ALL TILLAGE SYSTEMS) (SPIKE THROUGH 8 INCH TALL CORN)

DICAMBA DMA SALT at 1 pint per treated acre may be applied during the period from corn emergence through the five leaf stage or 8 inches tall, whichever comes first. Reduce the rate to 1/2 pint per treated acre if corn is growing on coarse textured soils (sand, sandy loam, and loamy sand). See LATE POSTEMERGENCE APPLICATIONS given below if the 6th true leaf is emerging from whorl or corn is greater than 8 inches tall.

# LATE POSTEMERGENCE (ALL TILLAGE SYSTEMS) (8 TO 36 INCH TALL CORN)

Application of DICAMBA DMA SALT at 1/2 pint per treated acre may be made from 8 to 36 inch tall corn or 15 days before tassel emergence, whichever comes first. For best performance, make applications when weeds are less than 3 inches tall.

Make directed spray application when (1) corn leaves prevent proper spray coverage; (2) sensitive crops are growing nearby; (3) tank mixing with 2,4-D.

DO NOT apply DICAMBA DMA SALT when soybeans are growing nearby if any of these conditions exist:

- 1. corn is more than 24 inches tall
- · soybeans are more than 10 inches tall
- soybeans have begun to bloom

#### **OVERLAY (SEQUENTIAL) TREATMENTS**

DICAMBA DMA SALT Herbicide may be applied to ground previously treated with one or more of the following herbicides:

acetochlor (Surpass®, Harness® Plus)

alachlor (Lasso®, Lasso® MT, Partner®)

atrazine

Bicep®

Broadstrike™ + Dual®

Broadstrike™ Plus

**Bronco®** 

**Bullet®** 

butylate (Sutan® +/Genate®)

Clarity®

cyanazine (Bladex®)

dimethenamid (Frontier®)

EPTC (Eradicane®)

Extrazine® II

glyphosate (Roundup®)

Guardsman®

halosulfuron(Battalion®, Permit®)

Lariat®

Dicamba plus Atrazine

metolachlor (Dual)

paraquat (Gramoxone®)

pendimethalin (Prowi®)

propachlor (Ramrod®)

simazine(Princep®)

Surpass® 100



Apply DICAMBA DMA SALT at 1/2 pint per treated acre to ground previously treated with full rates of Clarity or Dicamba plus Atrazine Herbicides. Allow at least 2 weeks between applications.

Read and follow label directions for each of the above products

#### TANK MIX TREATMENTS FOR CORN

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

#### RATES AND TIMINGS

DMA SALT   Preemergent (No Tillage Corn)   Postemergent (All Tillage Systems)   Tillage Systems   Tillage Systems)   Tillage Systems   Tillage Systems   Tillage Systems   Tillage Systems   Tillage Syst	
Tillage Corn)  Reduced Tillage Systems)  ACCENT® (nicosulfuron)  Indeptition of the property o	ļ
ACCENT® (nicosulfuron)  ACCENT® (nicosulfuron)  Tillage Systems)  1/2-1 oz.	
ACCENT® (nicosulfuron)    1/2-1 oz.	ļ
ACCENT® (nicosul- furon)    1/2-1 oz.	Į
(nicosul- furon)  a.i./A  a.i./A. To imade to emerged weeds before corn greater than 24 in tall. Use non-ioning surfactant at .25% (v/v) with this tall. Is a surfactant at .25% (v/v) with this tall. Is a surfactant at .25% (v/v) with this tall. Is a surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surfactant at .25% (v/v) with this tall. Use non-ioning surf	
furon)  improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.  Atrazine  1 1/4-2 lbs. a.i./A  a.i./A  a.i./A  improve spray coverage of weeds before corn greater than 24 in tall. Use non-ioni surfactant at .25% (v/v) with this tall mixture.  Application may a.i./A. Do not ande before grass oil concen- apply if corn is are 1 1/2 inches tall.	be
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oil concen- apply if corn is are 1 1/2 inches to	be
	ses
	all.
trates may be greater than 12   Follow all state ar	ıd
used with inches tall federal restriction	s
this mixture if pertaining to atra	zine
corn is 5 applications.	ľ
inches or less	ı
in height.	
BEACON® 0.31-0.62 oz. 0.31-0.62 oz. Application may	be
(primisul- a.i./A a.i./A. To made to emerged	
furon) improve spray   weeds when corn	

	,				
				coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.	to 24 inches tall. Use non-ionic surfactant at .25% (v/v) with this tank mixture.
BLADEX	1 1/4-4 lbs.	11/4-4 lbs.	1/4-2 Ibs.		Application may be
(cyanazine)	a.i./A	ai./A	a.i./A. Use the 90 DF formulation only after corn emerg- ence.)		made before grasses are 1 1/2 inches tall and before corn is beyond the 4 leaf stage.
DUAL (metolachlor)	1 1/2-3 lbs. a.i./ /\	1 1/2-3 lbs. a.i./A. Use only on fine or medium textured soils with 2.5% or greater or- ganic matter.	1 1/2-3 lbs. a.i./A		Application may be made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall.
FRONTIER®	13-25 fl. oz.	13-25 fl. oz.	13-25 fl. oz.		Application may be
(dimethe- namid)	a.i./A	/A. Use only on fine or medium textured soils with 2.5% or greater organic matter.	a.i./A		made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.
FRONTIER®	16 to 32 fl.	16 to 32 fl.	16 to 32 fl.		Application may be
6.0 (dimethe- namid)	oz./A	oz./A. Use only on fine or medium textured soils with 2.5% or greater organic matter.	oz./A		made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.

GRAMOX-	1/4-1 lb.	1/4-1 lb.			Application may be
ONE	a.i./A	a.i./A	•		made to emerged
	[4.1./ ]	a.i./ /\			weeds but prior to
(paraquat)			·		1 - 1
LIADNIECC	1 1 /2 2 15 -	11/02/1		<del></del> -	corn emergence.
HARNESS	1 1/2-3 lbs.	1 1/2-3 lbs.			Application should be
PLUS or	a.i./A	a.i./A. Use			made prior to corn
SURPASS		only on fine			emergence.
(acetochlor)		or medium			
i		textured soils			
]		with 2.5% or			
•		greater		i	1
		organic		ļ	1
<u> </u>	<del> </del>	matter.	ļ		<del>                                     </del>
LASSO	1 1/2-4 lbs.	1 1/2-4 lbs.	1 1/2-4 lbs.		Application may be
(alachlor)	a.i./A	a.i./A. Use	a.i./A		made before grasses
İ		only on fine			reach the 2 leaf stage
		textured soils			and before corn is
1		with greater			greater than 3 inches
		than 2.5%		İ	tall. If micro-
	i	organic			encapsulated forms of
	ì	matter.			alachlor are used
•			İ		(Lasso MT, Partner),
			[		applications must be
					made prior to grass
	\ <u>-</u>				emergence.
PRINCEP	2-3 lbs.	2-3 lbs. a.i./ A			Application may be
(simazine)	a.i./A	İ			made prior to corn or
	<u> </u>		<u> </u>	<u> </u>	weed emergence.
PROWL	ĺ	3/4-1 1/2 lbs.	, , ,		Application may be
(pendi-	ĺ	a.i./A. Use	a.i./A		made immediately
methalin)		only on fine			after planting but
	ļ	or medium			prior to weed
		textured soils			emergence. Corn
		with 2.5% or			should not be beyond
		greater			the 2-leaf stage of
	į ·	organic			growth.
	<u> </u>	matter.		<del> </del>	<del>                                     </del>
ROUNDUP	1-3 lbs.	1-3 lbs. a.i./A			Application நடிy be
(glyphosate)	a.i./A	i			made to emerged
	)	Ì	Į.		weeds but prior to
COUNTY CONTRACTOR	<del> </del>	ļ			corn emergence.
STINGER™			0.035-0.07 lbs.	0.035-0.07 lbs.	Application may be
(clopyralid)	)		a.i./A	a.i./A	made any Sime after
	]		[		corn emergence
	1	İ			through 24 incl. tall
	1	Ì			corn. Use drop
		,		<u> </u>	nozzles to direct spray
<u> </u>	1	L <u></u>	<u> </u>	L	after corn exceeds the

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	-				8 inch stage. Apply when the majority of the thistle plants have emerged and are at least 4 inches in height, but before bud stage. Use higher rates listed for stand reduction of larger thistle plants or heavier infestations.  Lower rates listed may provide seasonal thistle suppression only.
TOUGH® 3.75 EC (pyridate)			0.47 lb. a.i./A	0.47-0.94 lb. a.i./A	Applications may be made to emerged, actively growing weeds. Directed applications are recommended when corn is large enough to prevent proper spray coverage.
2,4-D	1/4-1/2 lb. a.i./A	1/4-1/2 lb. a.i./A	Not recom- mended	1/8 lb. a.i./A	Drop pipes are to be used when corn height is 8 inches or greater. Keeping the spray off the corn leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

#### **SORGHUM (MILO)**

Observe all precautions, including the reference to crops growing under stress. Read and follow MIXING AND APPLICATION instructions.

Applications of DICAMBA DMA SALT to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrows within 10 to 14 days.



Do not graze or feed treated sorghum forage or silage prior to mature grain stage. If sorghum is grown for pasture or hay, refer to the PASTURE use section. Do not apply DICAMBA DMA SALT to sorghum grown for seed production.

Make no more than one application per growing season.

#### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at the recommended rate for sorghum, will control many actively growing annual broadleaf weeds and will reduce competition from established perennial broadleaf weeds as well as control their seedlings. (Refer to GENERAL WEED LIST.)

#### RATES AND TIMINGS

DICAMBA DMA SALT, may be applied to emerged and actively growing weeds at least 15 days prior to planting. Postemergence application of DICAMBA DMA SALT must be made after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15 inches tall. For best performance, make applications when sorghum is in the 3 to 5 leaf stage and weeds are small (less than 3 inches tall). Use drop pipes (drop nozzles) if sorghum is taller than 8 inches. Keeping the spray off the sorghum leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

BROADCAST RATE PER TREATED ACRE: 1/2 pint (1/4 lb a.i.)

#### TANK MIX TREATMENTS

#### DICAMBA DMA SALT PLUS ATRAZINE

For improved control of emerged, actively growing broadleaf weeds including triazine-resistant species and added suppression of perennial broadleaf weeds, tank mix 1/2 pint DICAMBA DMA SALT with 0.5 to 1.25 lbs. a.i. atrazine per treated acre. For control of grasses (less than 1.5 inches tall), tank mix 1/2 pint DICAMBA DMA SALT with 2 lbs. a.i. atrazine per treated acre. For best performance and minimal crop injury, make application when sorghum is 3-8 inches tall and when broadleaf weeds are small (less than 6 inches tall). Application of atrazine must be made before sorghum is beyond 12 inches tall. The atrazine rate will depend upon soil texture and length of residual weed control desired. Follow all State and Federal restrictions pertaining to atrazine applications.

#### DICAMBA DMA SALT PLUS BUCTRIL®

For improved control of broadleaf weeds, tank mix 1/2 pint DICAMBA DMA SALT with 1-1 1/2 pints Buctril Herbicide per treated acre. Make application at 4 leaf to 15 inch tell sorghum. Use drop nozzles to direct spray beneath sorghum leaves when sorghum is greater than 8 inches tall.

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and timings and other restrictions.

#### OVERLAY (SEQUENTIAL) TREATMENTS

DICAMBA DMA SALT may be applied to ground previously treated with one or more of the following herbicides registered for use in corn:

Herbicide	Maximum Rate Per Treated Acre (lbs a.i.)
alachlor (Lasso) (Screen®-treated seed)	. 4
atrazine <sup>1</sup>	2.5
metolachlor (Dual) (Concep®-treated	2.5
seed)	
propachlor (Ramrod)	5

<sup>&</sup>lt;sup>1</sup>Maximum use rate for atrazine is determined by soil type, tillage practices, surface residue, and state or local restrictions. Follow the more restrictive requirements when determining the maximum use rate for atrazine.

## PREHARVEST USES (FOR USE ONLY IN THE STATES OF TEXAS AND OKLAHOMA)

DICAMBA DMA SALT may be applied for weed suppression any time after the sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial application use at least 2 gallons of water-based carrier per treated acre.

Delay harvest until 30 days after treatment.

#### BROADCAST RATE PER TREATED ACRE: 1/2 pint (1/4 lb a.i.)

#### SMALL GRAINS (WHEAT, BARLEY AND OATS) NOT UNDERSEEDED TO LEGUMES

Observe all precautions. Read and follow cleaning, mixing and application instructions.

If small grains are used for pasture or hay, the following restrictions apply:

- Animals cannot be removed from treated area for slaughter prior to 30 days after last application.
- There is no waiting period between treatment and grazing for non-lactating dairy animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- Do not harvest hay from treated areas before 37 days after treatment.

Note: Observe all precautions and restrictions on the labels of products used in tauk mix treatments.

#### WEEDS CONTROLLED

DICAMBA DMA SALT or combinations with listed tank mix partners will provide control or suppression of the annual broadleaf weeds listed below. For improved control of listed weeds, it is recommended that DICAMBA DMA SALT be applied in a tank mix with other herbicides. Refer to specific crop for tank mix options.

Alkanet1

Bedstraw, Catchweed<sup>1</sup> Bindweed, Field<sup>2</sup>

Buckwheat, Tartary Buckwheat, Wild

Carpetweed<sup>1</sup>

Chamomile, Corn

Chervil, Bur<sup>1</sup>

Chickweed, Common<sup>1</sup>

Cockle, Corn Cockle, Cow

Cocklebur, Common

Cornflower (Bachelorbutton)1

Dandelion, Common<sup>2</sup>

Dock, Curly<sup>2</sup>

Dragonhead, American<sup>1</sup> Evening Primrose, Cutleaf<sup>1</sup> Falseflax, Smallseeded<sup>1</sup>

Fiddleneck (Tarweed)<sup>1</sup>

Flixweed<sup>1</sup> Fumitory<sup>1</sup>

Gromwell, Corn<sup>1</sup> Groundsel, Common<sup>2</sup>

Hempnettle<sup>1</sup> Henbit

Jacobs Ladder<sup>1</sup>

Knawel (German Moss) Knotweed, Prostrate

Kochia Ladysthumb

Lambsquarters, Common

Lettuce, Miners<sup>1</sup> Lettuce, Prickly Mallow, Common

Mayweed, Chamomile (Dogfennel)1

Pepperweed, Peppergrass<sup>1</sup>

Mustard, Blue (Purple)1

Mustard, Tansy Mustard, Treacle<sup>1</sup>

Mustard, Tumble (Jim Hill)1

Mustard, Wild<sup>1</sup> Nightshade, Black Nightshade, Cutleaf<sup>1</sup>

Nightshade, Silverleaf<sup>2</sup> (White Horsenettle) Pennycress, Field (Fanweed, Frenchweed,

Stinkweed)

Pigweed, Redroot (Carelessweed)

Pigweed, Rough Pigweed, Tumble Pineappleweed<sup>1</sup> Plantain, Broadleaf<sup>2</sup> Poppy, Red Horned<sup>1</sup>

Puncturevine1

Purslane, Common<sup>1</sup>

Radish, Wild1

Ragweed, Common<sup>1</sup>

Ragweed, Giant (Buffaloweed)1

Rocket, London<sup>1</sup> Rocket, Yellow<sup>1</sup> Salsify (Goatsbeard)<sup>1</sup> Shepherdspurse<sup>1</sup> Smartweed, Green

Smartweed, Pennsylvania Sorrel, Red (Sheep Sorrel)<sup>1</sup>

Sowthistle, Annual Starthistle, Yellow<sup>1</sup>

Sunflower, Common (Wild)

Thistle, Canada<sup>2</sup> Thistle, Russian

Velvetleaf Vetch<sup>1</sup>

Yarrow, Common<sup>2</sup>

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<sup>1</sup>These weeds will be controlled with DICAMBA DMA SALT tank mixtures. Refer to tank mix label for specific weeds control.

<sup>2</sup>DICAMBA DMA SALT tank mixes will provide suppression of established broadleaf weeds and control of their seedlings.

#### **RATES AND TIMINGS**

Application of DICAMBA DMA SALT may be made before, during or after planting of small grains. For best performance, make applications when weeds are in the 2-3 leaf stage and rosettes are less than 2 inches across. Application of DICAMBA DMA SALT to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields.

Use DICAMBA DMA SALT at 2 to 4 fluid ounces per treated acre in wheat, fall seeded barley, and oats, and at 2 to 3 fluid ounces per treated acre in spring seeded barley. Use the higher level of listed rate ranges when treating difficult to control weeds such as kochia, Russian thistle and prickly lettuce or dense vegetative growth.

DICAMBA DMA SALT used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to specific crop for DICAMBA DMA SALT rate and application timing.

For applications prior to the emergence of weeds or when sulfonylurea-resistant weeds are present or suspected, use a minimum of 3 fluid ounces per treated acre of DICAMBA DMA SALT with a tank mix herbicide. Non-sulfonylurea herbicides, such as 2,4-D or MCPA tank mixed with DICAMBA DMA SALT, will offer more consistent control of sulfonylurea resistant weeds.

When tank mixing with sulfonylurea herbicides, such as Ally®, Amber®, Express®, Finesse®, Glean® and Harmony® Extra, use an agriculturally approved surfactant of at least 80% active ingredient at the rate of 1-4 pints/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature and difficult to control weeds or dense vegetative growth.

#### FALL AND SPRING SEEDED WHEAT

DICAMBA DMA SALT must be applied to fall seeded wheat prior to the jointing stage. Applications to spring seeded wheat must be made before wheat exceeds the 5 leaf stage.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, and geographic and other restrictions.

#### BROADCAST RATE PER TREATED ACRE1

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Pre Acre
2,4-D amine or ester	2,4-D	4 lb/gal	8-12 fl oz (.25375 lb a.i./ A) <sup>2</sup>
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb a.i./A) <sup>2</sup>
Ally	metsulfuron-methyl	60% DF	1/10 oz
Amber	triasulfuron	75% DF	0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/3 oz
Buctril	bromoxynil <sup>3</sup>	2 lb/gal	1-1 1/2 pts
Bronate®	bromoxynil + MCPA	4 lb/gal	1-2 pts
Curtail™	clopyralid + 2,4-D	2.38 lb/gal	2-2 2/3 pts
Stinger	clopyralid	3 lb/gal	1/4-1/3 pt
Karmex®4	diuron <sup>3</sup>	80% DF	1/2-1 1/2 lbs
Sencor®4	metribuzin <sup>3</sup>	75% DF	1-10 oz
Dakota® <sup>5</sup>	fenoxaprop-ethyl + MCPA	3.1 lb/gal	16 oz
Tiller® <sup>5</sup>	fenoxaprop-ethyl + MCPA + 2,4-D	2.7 lb/gal	1-1.7 pts

<sup>&</sup>lt;sup>1</sup>DICAMBA DMA SALT sprayed on fall seeded wheat variety TAM 107 in Colorado may cause unacceptable crop injury. DICAMBA DMA SALT should be used only if crop injury is acceptable. Caution should be used when spraying DICAMBA DMA SALT on early maturing fall seeded wheat varieties such as Madison and Wakefield. Crop staging to verify pre-jointing should be made prior to the application or unacceptable crop injury may occur.

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<sup>&</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

<sup>&</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulation may be used.

<sup>&</sup>lt;sup>4</sup>Tank mixtures for fall seeded wheat only.

<sup>&</sup>lt;sup>5</sup>Use 2 fluid ounces of DICAMBA DMA SALT only. Do not use if wild oats is the target weed. Do not use DICAMBA DMA SALT as a tank mix treatment with Dakota or Tiller on Durum wheat.

## SPECIAL USE TANK MIXES FOR SPRING AND FALL SEEDED WHEAT (SEE FOOTNOTES FOR APPLICABLE USES)

Apply 3-41 fluid ounces DICAMBA DMA SALT with:

Product <sup>2</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D or MCPA amine	2,4-D or MCPA	4 lb/gal	1-2 pts³ (.5-1.0 lb ai/A)⁴
2,4-D or MCPA ester	2,4-D or MCPA	4 lb/gal	1-1 1/2 pts <sup>3</sup> (.575 lb ai/ A) <sup>4</sup>
Ally	metsulfuron-methyl	60% DF	1/20-1/10 oz
Amber	triasulfuron	75% DF	0.14-0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12-1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6-1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6-1/3 oz
Ally + 2,4-D amine or ester <sup>5</sup>	metsulfuron-methyl + 2,4-D	60% DF + 4 lb/gal	1/20-1/10 oz. + 8 fl oz
Amber + 2,4-D amine or ester <sup>5</sup>	triasulfuron + 2,4-D	75% DF + 4 lb/gal	0.14 oz0.28 oz + 8 fl oz
Express + 2,4-D amine or ester <sup>5</sup>	(thifensulfuron + tribenuron-methyl) + 2,4-D	75% DF + 4 lb/gal	1/12-1/6 oz. + 8 fl oz
Finesse + 2,4-D amine or ester <sup>5</sup>	(chlorsulfuron + metculfuron-methyl) + 2,4-D	75% DF + 4 lb/gal	1/6-1/3 oz + 8 fl oz
Glean + 2,4-D amine or ester <sup>5</sup>	chlorsulfuron + 2,4-D	75% DF + 4 lb/gal	1/6 oz. + 8 fl oz
Harmony Extra + 2,4- D amine or ester <sup>5</sup>	(thifensulfuron + tribenuron-methyl) + 2,4-D	75% DF + 4 lb/gal	1/6-1/3 oz + 8 fl oz
Roundup® RT6	glyphosate	3 lb/gal	12-16 fl ez

DICAMBA DMA SALT may be used at 6 fluid ounces on fall seeded wheat in western Oregon as a spring application only. In CO, KS, NM, OK and TX up to 8 fluid ounces of DICAMBA DMA SALT may be applied on fall seeded wheat after it exceeds the 3 leaf stage for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall tollowing a frost but before a killing freeze. DICAMBA DMA SALT may be tank mixed with 2,4-D amine at 8 fluid ounces after wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, do not use if the potential for crop injury is not acceptable.

<sup>2</sup>Do not use low rates of sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean and Harmony Extra on more mature weeds and/or on dense vegetative growth.

<sup>3</sup>NOTE: For use on Fall Seeded Wheat Only. Do not use unless potential crop injury will be acceptable.

<sup>4</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

<sup>5</sup>Use for improved control of Russian thistle, flixweed, gromwell, mayweed and fiddleneck.

<sup>6</sup>DICAMBA DMA SALT may be applied at 2 fluid ounces with Roundup RT or any glyphosate formulation labeled for use as a preplant application to small grains with no waiting period prior to planting. Read and follow label directions of the tank mix product for adjuvant use recommendations.

#### **FALL SEEDED BARLEY**

DICAMBA DMA SALT must be applied to fall seeded barley prior to the jointing stage.

NOTE: For spring barley varieties that are seeded during the winter months or later, follow the rates and timings given for spring seeded barley.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions

#### BROADCAST RATE PER TREATED ACRE

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal	8 fl oz (0.25 lb ai/A) <sup>2</sup>
MCPA amine or ester	МСРА	4 lb/gal	8-12 fl oz (0.25-0.375 lb ai/A)
Ally	metsulfuron-methyl	60% DF	1/20-1/10 oz
Amber	triasulfuron	75% DF	0.14-0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12-1/6 ez
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6-1/3 02
Glean	chlorsulfuron	75% DF	1/6 02
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6-1/3 oz
Sencor	metribuzin <sup>3</sup>	75% DF	1-10 oz
Buctril	bromoxynil	2 lb/gal	1-1 1/2 pts

Bronate	bromoxynil + MCPA	4 lb/gal	3/4-1 1/2 pts

<sup>&</sup>lt;sup>1</sup>Do not use low rates of sulfonylureas (Ally, Amber, Express, Glean, and Harmony Extra) on more mature weeds and/or dense vegetative growth.

#### SPRING SEEDED BARLEY

DICAMBA DMA SALT must be applied before spring seeded barley exceeds the 4 leaf stage.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

#### **BROADCAST RATE PER TREATED ACRE**

Apply 2-3 fluid ounces DICAMBA DMA SALT with:

Product1	Active Ingredient	Formulation	Amount of Product Per
			Acre
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb
			ai/A) <sup>2</sup>
Ally	metsulfuron-methyl	60% DF	1/20-1/10 oz
Amber	triasulfuron	75% DF	0.14-0.28 oz
Express	thifensulfuron +	75% DF	1/12-1/6 oz
	tribenuron-methyl	,	<u> </u>
Finesse	chlorsulfuron +	75% DF	1/6-1/3 oz
	metsulfuron-methyl		
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron +	75% DF	1/6-1/3 oz
	tribenuron-methyl		
Sencor	metribuzin <sup>3</sup>	75% DF	1-10 oz
Buctril	bromoxynil	2 lb/gal	1-1 1/2 pts
Bronate	bromoxynil + MCPA	4 lb/gal	3/4-11/2 pts

<sup>&</sup>lt;sup>1</sup>Do not use low rates of sulfonylureas (Ally, Amber, Express, Glean, and Harmony Extra) on more mature weeds and/or dense vegetative growth.

<sup>&</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulations may be used.



<sup>&</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

<sup>&</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulations may be used.

<sup>&</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### FALL AND SPRING SEEDED OATS

DICAMBA DMA SALT must be applied before spring seeded oats exceed the 5 leaf stage. Applications to fall seeded oats must be made prior to the jointing stage.

#### TANK MIX TREAMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

#### BROADCAST RATE PER TREATED ACRE

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb a.i./A) <sup>1</sup>

<sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

### SUGARCANE

Observe all precautions. Read and follow MIXING AND APPLICATION instructions.

Consult your local or state authorities for possible application restrictions, especially concerning aerial applications and advice concerning special local use situations.

#### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at the recommended rates, will control many annual, biennial and perennial broadleaf weeds commonly found in sugarcane. (Refer to GENERAL WEED LIST.)

#### RATES AND TIMINGS

Application of DICAMBA DMA SALT may be made any time after weeds have emerged and are actively growing but before the close-in stage of sugarcane. Application rates and timings of DICAMBA DMA SALT are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

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Weed Stage & Type	Product Amount	Broadcast Rate Per Treated Acre (lbs a.i.)
Annual		
Small, actively growing	1/2-1 pt	1/4-1/2
Established growth	1-1 1/2 pts	1/2-3/4
Biennial	1-2 pts	1/2-1
Perennial	2-4 pts	1-2*

<sup>\*</sup>Application made over the top of actively growing sugarcane may result in crop injury.

When possible, direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage.

Retreatments may be made as needed; however, do not exceed a total of 4 pints (2 lbs a.i.) of DICAMBA DMA SALT per treated acre during a growing season.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

Herbicide	Rate Per Treated Acre (lbs a.i.)		
ametryn (Evik®)	2/5-8		
asulam (Asulox®)	2-3 1/3		
atrazine	2/5-4		
2,4-D	1/2-3*		

<sup>\*</sup>Application of DICAMBA DMA SALT plus 2,4-D tank mix at the higher listed rate ranges may result in crop injury.

#### PASTURE, HAY, RANGELAND AND GENERAL FARMSTEAD (NON-CROPLAND)

DICAMBA DMA SALT is recommended for use on pasture, hay, rangeland, general farmstead (non-cropland including fence rows and non-irrigation ditchbanks) for broadleaf weed and brush control. DICAMBA DMA SALT may also be applied to non-cropland areas for the control of broadleaf weeds in noxious weed control programs. Districts or areas including broadcast or spot treatment of roadsides and highways, utilities, railroad and pipeline rights-Noxious weeds must be recognized at the state level but programs may be administered at state, county or other level

Observe all precautions. Read and follow mixing and application instructions.

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DICAMBA DMA SALT uses described in this section also pertain to small grains (such as barley, forage sorghum, oats, rye, sudangrass or wheat) grown for pasture use only.

Newly seeded areas, including small grains grown for pasture may be severely injured if rates of Dicamba DMA Salt greater than 1 pint/A are applied.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Furthermore, rates of DICAMBA DMA SALT in excess of 2 quarts (2 lbs a.i.) per treated acre may cause temporary injury to many grass species:

Bentgrass, carpetgrass, buffalograss and St. Augustine grass may be injured at rates exceeding 1 pint DICAMBA DMA SALT (1/2 lb a.i.) per treated acre. Usually colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

Animals cannot be removed from treated area for slaughter prior to 30 days after last application. There is no waiting period between treatment and grazing for non-lactating animals.

## TIMING RESTRICTIONS FOR LACTATING DAIRY ANIMALS FOLLOWING TREATMENT

DICAMBA DMA SALT Rate per Treated Acre	Days Before Grazing	Days Before Hay Harvest
Up to 1 pint (1/2 lb a.i.)	7 days	37 days
Up to 1 quart (1 lb a.i.)	21 days	51 days
Up to 2 quarts (2 lbs a.i.)	40 days	70 days

NOTE: Observe all precautions and restrictions on labels of products used in tank mixtures.

#### MIXING AND APPLICATION

DICAMBA DMA SALT can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier. A compatibility test (see COMPATIBILITY TEST section) should be made prior to tank mixing.

To prepare oil in water emulsions, half-fill spray tank with water. Then add the appropriate amount of emulsifier with continuous agitation. Slowly add the herbicide and then the oil (such as diesel oil or fuel oil) or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

DICAMBA DMA SALT may be applied broadcast using either ground or aerial application equipment. When using ground equipment, apply 3 to 600 gallons of diluted spray per treated acre. Volume of spray applied will depend on the height, density, and type of weeds or brush in

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being treated and on the type of equipment being used. When using aerial equipment, apply 1 to 40 gallons of diluted spray per treated acre in a water-based carrier.

DICAMBA DMA SALT may be applied to individual clumps or small areas (spot treatment) of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to run-off) of foliage and stems.

Herbicide adjuvants or other spray additives (emulsifiers, surfactants, wetting agents, drift control agents, or penetrants) may be used for wetting, penetration, or drift control. Spray additives must be agriculturally approved when used in pasture applications. If spray additives are used, read and follow all use recommendations and precautions on product label.

#### WEED CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will give control of many annual, biennial, and perennial broadleaf weeds, and many woody brush and vine species commonly found in pasture, hay, rangeland and general farmstead (non-cropland) areas. (Refer to GENERAL WEED LIST.) Perennial weeds noted with a asterisk (\*) may be controlled with lower rates of either DICAMBA DMA SALT or DICAMBA DMA SALT plus 2,4-D. See RATES AND TIMINGS below.

#### RATES AND TIMINGS

Application rates and timing of DICAMBA DMA SALT are given below. Use the higher level of listed rate ranges when treating dense or tall vegetative growth.

Weed Stage & Type	Product Amount	Broadcast Rate Per Treated Acre (lbs a.i.)
Annual	•	1
Small, actively growing	1/2-1 pt	1/4-1/2
Established weed growth	1-1 1/2 pts	1/2-3/4
Biennial <sup>1</sup>	-	
Rosette diameter		
Less than 3 inches	1/2-1 pt	1/4-1/2
3 inches or more	1-2 pts	1/2-1
Bolting	2-3 pts	1-1 1/2
Perennial		
Suppression or top growth control	1/2-1 qt	1/2-1
Noted (*) Perennials	1-2 qts	1-2
Other Perennials	2 qts	2



Woody Brush & Vines		
Top growth suppression	1/2-1 qt	1/2-1
Top growth control <sup>2</sup>	1-2 qts	1-2
Stems and stem suppression	2 qts	2

<sup>&</sup>lt;sup>1</sup>For best performance, make application when biennial weeds are in the rosette stage.

Retreatments may be made as needed; however, do not exceed a total of 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre during a growing season.

#### TANK MIX TREATMENTS

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and other restrictions. DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses, additional broadleaf weeds, and woody brush and vines.

Herbicide	Rate Per Treated Acre (lbs a.i.)
Pasture, hay, rangeland and general farmstead	_
(non-cropland) use:	<u> </u>
glyphosate (Roundup)	3/4-33/4
metsulfuron methyl (Ally)	0.0038-0.011
paraquat (Gramoxone)	1/2-1
picloram (Tordon™)	1/8-3
tricolopyr (Garlon®)	3/4-9
2,4-D	1/4-6

Due to the variations that may occur in formulated products and specific use ingredients (e.g. water supplies), a compatibility test (see COMPATIBILITY TEST section) is recommended prior to actual tank mixing.

#### **CUT SURFACE TREE TREAMENTS**

DICAMBA DMA SALT may be applied as a cut surface treatment for control of unwanted trees and prevention of sprouts of cut trees. A mix of 1 part DICAMBA DMA SALT with 1 to 3 parts water should be used in application. Use the lower dilution when treating difficult-to-control species.

FRILL OR GIRDLE TREAMENTS: Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint cut surface with the DICAMBA DMA SALT/water mix.



<sup>&</sup>lt;sup>2</sup>Species noted in GENERAL WEED LIST section will require tank mixtures for adequate control.

**STUMP TREATMENTS:** Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

NOTE: For more rapid foliar effects, 2-4-D may be added to the DICAMBA DMA SALT/water mix.

#### DORMANT APPLICATIONS FOR CONTROL OF MUTIFLORA ROSE

DICAMBA DMA SALT can be applied when plants are dormant as an undiluted SPOT-CONCENTRATE directly to the soil or as a LO-OIL BASAL BARK treatment using an oil-water emulsion solution.

SPOT-CONCENTRATE applications of DICAMBA DMA SALT should be applied directly to the soil as close as possible to the root crown but within 6-8 inches of the crown. On sloping terrain, application should be made to the uphill side of the crown. Do not make application when snow or water prevents applying DICAMBA DMA SALT directly to the soil. The use rate of DICAMBA DMA SALT is dependent on the canopy diameter of the multiflora rose. Examples: Use DICAMBA DMA SALT Herbicide at 1/4, 1 or 2 1/4 fluid ounces of product respectively, for 5, 10, or 15 feet canopy diameters. Do not exceed a total of 2 qts. DICAMBA DMA SALT per acre per year.

LO-OIL BASAL BARK applications of DICAMBA DMA SALT should be applied to the basal stem region from the ground line up to a height of 12 to 18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, make application when plants are dormant. Do not make application after bud break or when plants are showing signs of active growth. Do not make application when snow or water prevents applying DICAMBA DMA SALT to the ground line. Refer to MIXING AND APPLICATIONS above in this section for method of preparing oil-in-water emulsion. Example for making approximately 2 gallons of a LO-OIL spray solution mixture: combine 1 1/2 gallons water plus 1 ounce emulsifier plus 1 pint DICAMBA DMA SALT plus 2 1/2 pints of No. 2 diesel fuel. Adjust amounts of materials used proportionately to the amount of final spray solution desired. Do not exceed 8 gallons of spray solution mix applied per acre per year.

#### CONSERVATION RESERVE PROGRAM (CRP) ACRES

DICAMBA DMA SALT is recommended for use on both newly seeded and established grasses grown in Conservation Reserve or Federal Set-Aside Programs.

Observe all precautions, MIXING AND APPLICATION directions.

DICAMBA DMA SALT treatment will injure or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

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Agriculturally approved surfactants may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

Do not use adjuvants containing penetrants such as petroleum based oils after grass emergence on newly seeded grasses.

#### **NEWLY SEEDED AREAS**

DICAMBA DMA SALT may be applied either preplant or postemergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence applications may be made after seedling grasses exceed the 3 leaf stage. Rates of DICAMBA DMA SALT greater than 1 pint per treated acre may severely injure newly seeded grasses.

Preplant applications: Injury to new seedings may occur if intervals between application and grass planting are less than 45 days per pint of DICAMBA DMA SALT per treated acre west of the Mississippi River or 20 days per pint east of the Mississippi River.

#### ESTABLISHED GRASS STANDS

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species, bentgrass, carpetgrass, smooth brome, buffalograss or St. Augustine grass, may be injured when treated with DICAMBA DMA SALT at rates exceeding 1 pint per treated acre.

#### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will control many annual and biennial weeds and provide control or suppression of many perennial weeds. (Refer to GENERAL WEED LIST.)

#### RATES AND TIMINGS

Application rates and timings of DICAMBA DMA SALT treatments are given below. Use the higher rate of the rate range when vegetation is either dense or tall, or when weeds are growing under stressed conditions such as drought or cool temperature.

	Broadcast Rate Per Treated Acre		
Weed Type* & Stage	Amount of formulated DICAMBA DMA SALT (pts)	Equivalent !bs a.i.	
Annuals			
Small, actively growing	1/4-1	1/8-1/2	
Established weed growth	1	1/2	

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Biennials**		
Rosette diameter		
Less than 3 inches	1/2-1	1/4-1/2
3 inches or greater	1-2	1/2-1
Bolting biennial	2-3	1-1 1/2
Perennials**		
Suppression/Control	2-4	1-2

<sup>\*</sup>For best results, treat biennial weeds with DICAMBA DMA SALT when they are in the rosette stage of growth. Retreatments may be made as needed; however, do not exceed a total of 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre during a growing season.

\*\*biennial and perennial weeds will require follow-up (sequential) treatments for seedling control and escapes.

#### TANK MIX TREATMENTS

To control grasses and additional broadleaf weeds, DICAMBA DMA SALT may be tank mixed with other herbicides registered for use in Conservation Reserve Programs such as 2,4-D, glyphosate (Roundup), paraquat (Gramoxone), metsulfuron (Ally) and others.

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates, and other restrictions.

#### ASPARAGUS FOR USE ONLY IN THE STATES OF CALIFORNIA, OREGON AND WASHINGTON

Observe all precautions. Read and follow mixing and application instructions.

If spray contacts emerged spears, crooking (twisting) of some spears may result. If such crooking occurs, discard affected spears.

Do not harvest prior to 24 hours after treatment.

Do not use in the Coachella Valley of California.

Multiple applications may be made per growing season. Do not exceed a total of 1 pint of DICAMBA DMA SALT per treated acre per crop year.

#### **RATES AND TIMINGS**

Apply DICAMBA DMA SALT to emerged and actively growing weeds in 40 to 60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the next cutting.

Weeds	Rate Per Treated Acre
Mustard, Black	
Pigweed, Redroot (Carelessweed)	1/2-1 pt
Sowthistle, Annual	(1/4-1/2 lb a.i.)
*Thistle, Canada	
Thistle, Russian	
*Bindweed, Field	
Chickweed, Common	1 pt
Goosefoot, Nettleleaf	(1/2 lb a.i.)
Radish, Wild	, ,
Thistle, Milk	

DICAMBA DMA SALT may be applied in a tank mixture with either 2,4-D or Roundup Herbicide for improved control of noted (\*) weeds. Read and follow 2,4-D or Roundup Herbicide product labeling for precautionary statements, directions for use, application rates and timings, and other restrictions.

#### TURF AND LAWNS FOR USE IN GENERAL FARMSTEAD (NON-CROPLAND) AND SOD FARMS

Observe all precautions. Read and follow mixing and application instructions.

To avoid injury to newly seeded grasses, application of DICAMBA DMA SALT should be delayed until after the second mowing. Furthermore, application rates in excess of 1 pint (1/2 lb a.i.) per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustine grass.

In areas where roots of sensitive plants extend, do not apply in excess of 1/4 pint (1/8 lb a.i.) of DICAMBA DMA SALT per treated acre on coarse textured (sandy-type) soils, or in excess of 1/2 pint (1/4 lb a.i.) per treated acre on fine textured (clay-type) soils. Do not make repeat applications in these areas for 30 days and until previous applications of DICAMBA DMA SALT have been activated in the soil by rain or irrigation.

#### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will give control of many annual, biennial, and noted (\*) perennial broadleaf weds commonly found in turf. DICAMBA DMA SALT will also give growth suppression of many other listed perennial broadleaf weeds and woody brush and vine-species. (Refer to GENERAL WEED LIST.)

#### MIXING AND APPLICATION

Apply 30 to 200 gallons of diluted spray per treated acre (3 qts to 4 1/4 gals per 1,000 sq ft), depending on density or height of weeds treated and on the type of equipment used.

#### RATES AND TIMINGS

Use the higher level of listed rate ranges when treating dense vegetative growth.

	DICAMBA DMA SALT		
Weed Stage & Type	Pints per treated acre	Pounds a.i. per treated acre	Teaspoons per 1000 sq ft
Annual			
Small, actively growing	1/2-1	1/4-1/2	1-21/4
Established weed growth	1-1 1/2	1/2-3/4	21/4-31/4
Biennial,			
Rosette diameter			
Less than 3 inches	1/2-1	1/4-1/2	1-21/4
3 inches or more	1-2	1/2-1	21/4-41/2_
Perennials, Woody Brush and Vines			
Brush and Vines	1-2	1/2-1	21/4-41/2

For best performance, apply when weeds are emerged and actively growing.

Retreatments may be made as needed; do not exceed a total of 2 pints (1 lb a.i.) DICAMBA DMA SALT per treated acre during a growing season.

#### TANK MIX TREATMENTS

Read and follow the label of each tank mix product, used for precautionary statements, directions for use, application rates and timings and other restrictions.

Tank mix treatments of DICAMBA DMA SALT may be made with 2,4-D, MCPA, MCPP, or bromoxynil for control of additional weeds listed on the tank mix product label.

Apply 1/5 to 1/2 pint (1/10 to 1/4 lb a.i.) of DICAMBA DMA SALT per treated acre with 1/2 to 1 1/2 lbs acid equivalent of 2,4-D, MCPA, MCPP, or with 3/8 to 1/2 lb a.i. of bromoxynil. Use the higher level of the listed rate ranges when treating established weeds. Repeat treatments may be made as needed; however, do not exceed 2 pints (1 lb a.i.) of DICAMBA DMA SALT per treated acre during the growing season.

## GRASS SEED CROPS GRASSES GROWN FOR SEED SUCH AS BERMUDAGRASS, BLUEGRASS, FESCUE AND RYEGRASS

Observe all precautions. Read and follow mixing and application instructions.

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Refer to the PASTURE, HAY, RANGELAND, AND GENERAL FARMSTEAD (NON-CROPLAND) section for possible grazing and feeding restrictions.

Do not use on bentgrass unless possible crop injury can be tolerated.

#### WEEDS CONTROLLED

DICAMBA DMA SALT will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds plus additional weeds, it is recommended that DICAMBA DMA SALT be applied in a tank mix with other herbicides.

Alfalfa1

Bedstraw, Catchweed

Bindweed, Field

Buttercup, Corn

Buttercup, Creeping

Buttercup, Western Field

Catchfly, Nightflowering

Chamomile, Corn

Chickweed, Common

Chickweed, Mouseear

Clover

Cockle, White Dock, Broadleaf

Dock, Curly

Hemlock, Poison

Knapweed, Russian<sup>1</sup>

Knawel

Knotweed, Prostrate

Kochia

Ladysthumb

Lambsquarters, Common

Lettuce, Prickly

Mayweed (Dogfennel)

Ragwort, Tansy

Sorrel, Red (Sheep Sorrel)

Sowthistle, Annual Starwort, Little Thistle, Canada<sup>1</sup>

<sup>1</sup>Top growth only.

#### RATES AND TIMINGS

Apply 1/2 to 1 pint of DICAMBA DMA SALT per treated acre on seedling grass after the crop reaches the 3 to 5 leaf stage. Apply up to 2 pints of DICAMBA DMA SALT on well-established perennial grass. Do not apply after the grass seed crop begins to joint. For best performance, make applications when weeds are in the 2 to 4 leaf stage and rosettes are less than 2 inches across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

#### TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, DICAMBA DMA SALT may be tank mixed with all broadleaf herbicides registered for use in Grass Seed Production. Pead and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

#### BROADCAST RATE PER TREATED ACRE

Apply 1/2 to 2 pints DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal	1-4 pts (.5-2.0 lbs a.i./A) <sup>1</sup>
MCPA amine	МСРА	4 lb/gal	1-2 pts (.5-1.0 lb a.i./A) <sup>1</sup>
Buctril	bromoxynil <sup>2</sup>	2 lb/gal	1-2 pts
Curtail	clopyralid + 2,4-D	2.38 lb/gal	13/4-4 pts
Karmex	diuron <sup>2</sup>	80% DF	2-4 lbs
Stinger	clopyralid	3 lb/gal	1/4-1 pt

<sup>&</sup>lt;sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### ANNUAL GRASS CONTROL

For suppression of annual grass weeds such as:

Brome, Downy (Cheatgrass) Brome, Ripgut Fescue, Rattail Windgrass

Apply up to 4 pints of DICAMBA DMA SALT per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

## PREPLANT DIRECTIONS (POST HARVEST/FALLOW/CROP STUBBLE/SET-A-SIDE) FOR BROADLEAF WEED CONTROL BEFORE WHEAT, CORN, SORGHUM, SOYBEANS

Observe all precautions. Read and follow mixing and application instructions.

#### WEEDS CONTROLLED

DICAMBA DMA SALT may be applied alone or in tank mix combinations with other herbicides registered for this use.

DICAMBA DMA SALT can be applied either post harvest in the fall, spring or summer during the fallow period or to crop stubble/set-a-side acres. DICAMBA DMA SALT, when applied at the recommended rates, will control many annual broadleaf weeds. See the WEEDS



<sup>&</sup>lt;sup>2</sup>Herbicides with the same common name and/or different formulations may be used.

CONTROLLED section under small grains. In addition, DICAMBA DMA SALT Herbicide will control or suppress the following biennial and perennial broadleaf weeds:

Alfalfa1 Artichoke, Jerusalem

Bindweed, Field

Bindweed, Hedge Blueweed, Texas

Bursage (Bur Ragweed, Povertyweed

Lakeweed)1

Dandelion, Common<sup>1</sup>

Dock, Curly<sup>1</sup> Dogbane, Hemp Garlic, Wild<sup>2</sup>

Horsenettle, Carolina

Knapweed, Spotted

Knapweed, Diffuse

Nightshade, Silver

Redvine

Smartweed, Swamp Sowthistle, Perennial<sup>1</sup>

Spurge, Leafy Thistle Bull Thistle, Canada<sup>2</sup> Thistle, Milk Thistle, Musk Thistle, Plumeless

Thistle. Scotch

Trumpetcreeper (Buckvine)

<sup>1</sup>Perennials may be controlled using DICAMBA DMA SALT at rates lower than those recommended for other listed perennial weeds. (See RATES AND TIMINGS under this heading.)

<sup>2</sup>See the SPECIAL TANK MIX TREATMENTS section under this heading for specific control programs for these weeds.

#### RATES AND TIMING

Apply DICAMBA DMA SALT as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (post harvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer. Agriculturally approved spray additives, such as surfactants or oils, may be used to enhance spray coverage and the herbicide's penetration of weed foliage. See CROPPING RESTRICTIONS for recommended interval between application and planting to prevent crop injury.

For best performance, make application when annual weeds are less than 6 inches tall, when biennial weeds are in the rosette stage, and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke, occurs if application is made when the majority of weeds, such as field bindweed and hedge bindweed, are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for DICAMBA DMA SALT. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of DICAMBA DMA SALT, see the RATES AND TIMINGS section under the SMALL GRAINS heading for details.

#### DICAMBA DMA SALT RATES PER TREATED ACRE

Weed Type	Amount of Product Per Acre
Annual	1/2-1 pt (8 to 16 fl oz)
Biennial	1-2 pts (16 to 32 fl oz)
Perennial	1-4 pts (16 to 64 fl oz)
Perennial suppression	1-2 pts (16 to 32 fl oz)
Noted* perennials	2-4 pts (32 to 64 fl oz)
Other perennials	4 pts (64 fl oz)

Retreatments may be made as needed; however, do not exceed a total of 4 pints of DICAMBA DMA SALT per treated acre during any given period.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

## DICAMBA DMA SALT BROADCAST RATE PER TREATED ACRE FOR ANNUAL WEED CONTROL

Apply 1/4 to 1 pint DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Aatrex® 4L1	atrazine	4 lb/gal	0.5-6 pts
Aatrex® Nine-O®1	atrazine	90% DF	0.5-3 1/3 lb
Ally <sup>2</sup>	metsulfuron-methyl	75% DF	0.1 oz
Amber <sup>2</sup>	triasulfuron	75% DF	0.28-0.35 oz
Bladex <sup>1</sup>	cyanazine	90% DF	2.7-3.6 lb
Cyclone®	paraquat	2 lb/gal	1-2 pts
Fallow Master™	glyphosate + dicamba	1.6 lb/gal	22-44 fl oz
Finesse <sup>2</sup>	chlorsulfuron + metsulfuron-methyl	75% DF	0.2 oz
Gramoxone® Extra	paraquat	2.5 lb/gal	1.5 pts
Kerb®¹	pronamide	50-W	0.5-1 lb
Landmaster® BW	glyphosate + 2,4-D	2.4 lb/gal	27-54 fl oz
Roundup or Roundup RT	glyphosate	3 lb/gal	8-48 f! oz
Sencor® DF1	metribuzin	75% DF	0.5-1 Jb
Sencor® 41	metribuzin	4 lb/gal	0.75- 1.5 pts
2,4-D	2,4-D	4 lb/gal	1-2 pts (0.5-1 lb ai/A)3

<sup>1</sup>Tank mixes of DICAMBA DMA SALT with these products may be subject to special restrictions. See the product label of the tank mix partner for intended use rates, restrictions and other precautions.

<sup>2</sup>When tank mixing with sulfonylurea herbicides, refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth. Sulfonylurea-resistant weeds may not be controlled by tank mixes of DICAMBA DMA SALT and a sulfonylurea. Refer to the DICAMBA DMA SALT tank mix section for alternative tank mixes.

<sup>3</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

## DICAMBA DMA SALT BROADCAST RATE PER TREATED ACRE FOR BIENNIAL AND PERENNIAL WEED CONTROL

Apply 1 to 4 pin	s of DICAMBA	DMA SALT	with:
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Product	Active Ingredient	Formulation	Amount of Product Per Acre
Curtail	clopyralid + 2,4-D	2.38 lb/gal	2-4 pts
2,4-D	2,4-D	4 lb/gal	2-6 pts (1.0-3 lbs a.i./A) <sup>1</sup>
Landmaster BW	glyphosate + 2,4-D	2.4 lb/gal	54 fl oz
Roundup .	glyphosate	3.0 lb/gal	1-5 qts
Roundup RT	glyphosate	3.0 lb/gal	1-5 qts
Tordon™ 22K	picloram	2 lb/gal	1/2-1 pt

<sup>&</sup>lt;sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### SPECIAL TANK MIX TREATMENTS

For suppression of perennial weeds, apply 1/2-1 pint of DICAMBA DMA SALT with 8-16 fluid ounces of Roundup Herbicide or Roundup RT per treated acre.

For wild garlic control, apply 1 pint DICAMBA DMA SALT with 3 pints of 2,4-D LV ester (4 lb/gal) per treated acre. Apply when wild garlic is 4 to 8 inches tall.

For Canada thistle control, use DICAMBA DMA SALT, DICAMBA DMA SALT plus Curtail, or DICAMBA DMA SALT plus Roundup Herbicide or Roundup RT tank mix treatments.

Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat when they are actively growing. Use 1 pint DICAMBA DMA SALT with 1/2-1 lb Kerb 50-W. Fall seeded wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December, prior to soil freeze up.

During fallow periods, apply DICAMBA DMA SALT plus Landmaster BW or Dicamba plus Glyphosate Herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 1/8-1/4 pint of DICAMBA DMA SALT plus 22-54 fluid ounces of Landmaster BW or Dicamba plus Glyphosate Herbicide for annual weed control or 1/4-1/2 pint DICAMBA DMA SALT plus 22-54 fluid ounces of Landmaster BW or Dicamba plus Glyphosate Herbicide for perennial weed suppression.

#### **CROPPING RESTRICTIONS**

The following recommendations are based on DICAMBA DMA SALT use rates up to 4 pints per treated acre.

Corn, sorghum, and soybeans may be planted in the spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and first killing frost, treated areas should be cultivated to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

Soybean injury may occur if the interval between application and planting is less than specified. In areas with greater than 30 inches of rainfall, delay planting for 30 days per pint of DICAMBA DMA SALT per treated acre. In areas with less than 30 inches of rainfall, delay planting for 45 days per pint of DICAMBA DMA SALT per treated acre. Exclude days when ground is frozen.

Wheat may be planted in the fall or spring following applications. Also, spot application may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

East of the Mississippi River, the interval is 20 days per pint of DICAMBA DMA SALT per treated acre or 1.25 days per 1 ounce. Moisture is essential for DICAMBA DMA SALT degradation. Exclude days when ground is frozen.

West of the Mississippi River, the interval is 45 days per pint of DICAMBA DMA SALT per treated acre or 3 days per ounce. Moisture is essential for DICAMBA DMA SALT degradation. Exclude days when ground is frozen.

Following a normal harvest of barley, oats, or wheat, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.



# CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND (SPOT APPLICATION ONLY) FOR USE ONLY IN THE STATES OF IDAHO, MONTANA, NEVADA, OREGON, UTAH, AND WASHINGTON

Observe all precautions. Read and follow mixing and application instructions.

Do not treat subirrigated cropland or areas where the soil remains saturated with water throughout the year.

Make only one application of DICAMBA DMA SALT per year.

#### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will control many broadleaf weeds including:

Bindweed, Field
Dock, Broadleaf (Bitterdock)
Dock, Curly
Knapweed, Black

Knapweed, Russian Ragwort, Tansy Spurge, Leafy Thistle, Canada

#### RATES AND TIMINGS

DICAMBA DMA SALT may be applied at any time following a crop harvest to stubble, fallow or other cropland. Application should be made when weeds are actively growing and prior to a killing frost.

Apply 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre. Application may be made up to one month prior to the planting of wheat.

NOTE: Do not use unless injury to wheat or rotated barley will be acceptable.

Barley, oats, corn, sorghum (milo), annual or perennial grass crops may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. Do not plant broadleaf crops such as alfalfa, beans, peas, potatoes, or sugar beets into treated areas until two years after application.

In most cases, treatments will not kill perennial weed seedlings which germinate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program for seedling control or other cultural practices should be instituted.

#### WIPER APPLICATION USES

Important. Observe all precautions. Dicamba DMA Salt may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 1 part Dicamba DMA Salt to 1 part water. Do not contact desirable vegetation with herbicide solution. Wiper application should only be made to crops (including PASTURES) and NON-CROPLAND AREAS described in this label with the exception of GRAIN SORGHUM (MILO).

#### CONDITION OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith. In no case shall the seller be liable for consequential, special or indirect damages such as loss of profits or values resulting from the use or handling of this product.

#### REGISTERED TRADEMARKS

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#### Dicamba DMA Salt 42750-UN

1. Data compensation - Submitted product specific data. Using Cite-all method for generic data. submitted new form on 8/1/98 - checked cite all and offer to pay boxes.

2. Product Chemistry - Acceptable

3. Acute Tox - Acceptable

Tox Profile: Oral JII

Dermal II

> Inhalation TIZ.

\* Eye Irritation  $\mathcal{I}\!\mathcal{I}$ 

Skin Irritation IZ

Dermal Sens. Non-sensitizer

4. Label Review Claiming similarity to Banuel Herbicide (1969-131)

Statement of Practical Treatment

\* Revise oral statement due to Tox II excircitation potential. Inhalation statement not required

\*Haz to Humans - inhalation statements not required

\*PPE Change waterproof to chem resist, CATA Calso early entry PRE

( CK-) REI - Bank & this product say 24 his but was PR notice says 48 -

per HED review of pending petition (prehavortwheetus),

the required REI is 24 hrs. - So-ok Storage and Disposal - should Revise Storage and Pesticid-Disposal Sections as on Banual label for non-bulk containers - P. 14 - left out rate for Early Postemergent treatment

- p. 41 - left off wiper application directions - intentional or mistake

#### Alice Walker Consulting 811 Country Club Drive Senatobia, MS 38668

Phone: 601-562-5995 Fax: 601-562-7404

#### **FACSIMILE TRANSMITTAL SHEET**

To:

Susan Stanton

Fr: Alice Walker

Date: September 2, 1998

Re:

Dicamba DMA Salt (EPA File Symbol 42750-UN)

#### Dear Susan:

Attached are pages 1, 2, 3, 14, and 42 of subject label revised according to your instructions. Thanks for the opportunity to clean up the label. It makes life so much easier.

Thanks for your help. Have a therapeutic get-away!

Alice Walker

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#### **ALBAUGH**

#### **DICAMBA DMA SALT**

For Weed Control in Corn, Sorghum, Small Grains, Pasture, Hay, Rangeland, General Farmstead (Non-Cropland), Fallow, Sugarcane, Asparagus, Turf and Grass Seed Crops

ACTIVE INGREDIENT:	
Dimethylamine salt of dicamba*	48.2%
OTHER INGREDIENTS:	
TOTAL	100.0%

\*This product contains 40.0% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon.

#### KEEP OUT OF REACH OF CHILDREN

#### WARNING-AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

#### STATEMENT OF PRACTICAL TREATMENT

/	IF IN EYES:	Hold eyelids open	and flush with a	steady, gentle :	stream of water fo	or 15 minutes.
	Get medical a	ittention.		<u>-</u>		

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Erink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

See left panel for additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 42750~	EPA Est. No. 42750-
Manufactured By: Albaugh, Inc. Ankeny, Iowa 50021	NET CONTENTS Gals Liters

#### PRECAUTIONARY STATEMENTS

#### WARNING

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves in category A, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any



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requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coverally waterproof gloves, shoes plus socks, and protective eyewear.

## Chemical-resistant, Cat. A STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.

#### **STORAGE**

Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

#### PESTICIDE DISPOSAL

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

METAL CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PLASTIC CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer

				coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.	to 24 inches tall. Use non-ionic surfactant at .25% (v/v) with this tank mixture.
BLADEX	11/4-4 lbs.	11/4-4 lbs.	1/4-2 lb3.		Application may be
(cyanazine)	a.i./A	a.i./A	a.i./A. Use the 90 DF formulation only after corn emerg- ence.)		made before grasses are 1 1/2 inches tall and before corn is beyond the 4 leaf stage.
DUAL	1 1/2-3 lbs.	1 1/2-3 lbs.	11/2-3 lbs.		Application may be
(metolachlor)	a.i.//\	a.i./A. Use only on fine or medium textured soils with 2.5% or greater organic matter.	a.i./A		made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall.
FRONTIER® (dimethe- namid)	13-25 fl. oz. a.i./A	13-25 fl. oz.  /A. Use only on fine or medium textured soils with 2.5% or greater organic	13-25 fl. oz. a.i./A		Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds
·		matter.			if they are greater than 1 inch tall at the time of application.
FRONTIER® 6.0 (dimethe- namid)	16 to 32 fl. oz./A.	16 to 32 fl. oz./A. Use only on fine or medium textured soils with 2.5% or greater organic matter.	16 to 32 fl. oz./A		Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater
					than 1 inch tall at the time of application.



#### WIPER APPLICATION USES

Important. Observe all precautions. Dicamba DMA Salt may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 1 part Dicamba DMA Salt to 1 part water. Do not contact desirable vegetation with herbicide solution. Wiper application should only be made to crops (including PASTURES) and NON-CROPLAND AREAS described in this label with the exception of GRAIN SORGHUM (MILO).

#### CONDITION OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith. In no case shall the seller be liable for consequential, special or indirect damages such as loss of profits or values resulting from the use or handling of this product.

#### REGISTERED TRADEMARKS

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Draft Label

#### **ALBAUGH**

#### DICAMBA DMA SALT .

For Weed Control in Corn, Sorghum, Small Grains, Pasture, Hay, Rangeland, General Farmstead (Non-Cropland), Fallow, Sugarcane, Asparagus, Turf and Grass Seed Crops

ACTIVE INGREDIENT:		
Dimethylamine salt of dicamba*	48.2%	
OTHER INGREDIENTS:	<u>51.8</u> %	-
TOTAL		

\*This product contains 40.0% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon.

#### KEEP OUT OF REACH OF CHILDREN

#### **WARNING-AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If\_you do not understand the label, find someone to explain it to you in detail).

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES:	Hold eyelids or	en and flust	n with a s	steady, go	entle stream	of water fo	r 15 minu	ıtes.
Get medical	attention.							

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

See left panel for additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 42750-

EPA Est. No. 42750-

Manufactured By: Albaugh, Inc. Ankeny, Iowa 50021 \_NET CONTENTS \_\_\_\_ Gals.

\_\_\_\_ Liters

#### PRECAUTIONARY STATEMENTS

#### WARNING

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed or inhaled. Avoid breathing spray mist.

Not required for Inhalation Tok 4.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any



requirements specific to your State or Tribe, consult the agency responsible for pesticide pregulation.

# AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. 48? (Banvel label is 24, but NPS list says 48) - Per recent HED review 24 hours is OK

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls waterproof gloves, shoes plus socks, and protective eyewear.

Watergroof Cat. 4
STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.

#### STORAGE

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

# PESTICIDE DISPOSAL

Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal and local procedures under Subtitle C of the Resource Conservation and Recovery Act.

#### CONTAINER DISPOSAL

METAL CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PLASTIC CONTAINERS: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer

for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**REFILLABLE CONTAINERS:** If this container has been designated by the supplier as refillable, return empty container to the place of purchase.

# **GENERAL INFORMATION**

The following directions apply to all uses of DICAMBA DMA SALT. Additional precautions and restrictions will be found in each specific use section. Do not treat irrigation ditches on water used for crop irrigation or domestic uses. Do not apply this product through any type of irrigation system.

# MIXING AND APPLICATION

Unless otherwise specified under the individual use headings of this label, the following directions apply to all crop and noncrop uses of DICAMBA DMA SALT. Refer to individual use sections for additional precautions, restrictions, application rates and timings.

DICAMBA DMA SALT is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, a compatibility test (see COMPATIBILITY TEST below) should be made prior to tank mixing.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. However, do not use aerial application equipment if spray particles can be carried by wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Apply 3 to 50 gallons of diluted spray per treated acre when using ground application equipment, or 1 to 10 gallons of diluted spray per treated acre (2 to 20 gallons of diluted spray per acre for preharvest uses) in a water-based carrier when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays.

Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

To avoid uneven spray coverage, DICAMBA DMA SALT should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid disturbing (e.g., cultivating or mowing) treated areas for at least 7 days following application.

# SENSITIVE CROP PRECAUTIONS

DICAMBA DMA SALT may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to DICAMBA DMA SALT during their development or growing stage.

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of DICAMBA DMA SALT with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas
  where sensitive crops and plants are growing, or when temperature inversions exist. Do not
  spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction
  of adjacent sensitive crops. Leave an adequate buffer zone between area to be treated and
  sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays.
- Use coarse sprays to avoid potential herbicide drift. Select nozzles which are designed to produce minimal amounts of fine spray particles. Examples of nozzles designed to produce coarse sprays via ground applications are Delavan Raindrops, Spraying Systems XR flat fans or large capacity flood nozzles such as D10, TK10, or greater capacity tips. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gpa, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult with your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally approved drift-reducing additives may be used.
- Do not apply DICAMBA DMA SALT adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85°F as drift is more likely to occur.
- To avoid injury to desirable plants, equipment used to apply DICAMBA DMA SALT should be thoroughly cleaned (see PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

All crop uses of DICAMBA DMA SALT are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crops that will be plowed under, do not follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as drought, poor fertility, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

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# **BAND TREATMENTS**

DICAMBA DMA SALT may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

Band width in inches Row width in inches	×	Broadcast rate = = per treated acre	Band rate per treated acre
Band width in inches Row width in inches	x	Broadcast volume = per treated acre	Band volume per treated acre

# **COMPATIBILITY TEST**

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

# Amount of Herbicide to Add to One Pint of Spray Carrier (Assuming Volume is 25 Gallons per Acre)

HERBICIDE FORMULATIONS	RATE PER ACRE	LEVEL TEASPOONS	
Dry	1 lb	11/2	١
Liquid	1 pt	1/2	ľ

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to  $\nu$  2 pints per 100 gallons of fluid fertilizer).

# PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of DICAMBA DMA SALT or tank mixes of DICAMBA DMA SALT plus 2,4-D amine:

- 1) Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse by water.
- 2) Fill tank with water while adding 1 quart of household ammonia for every 25 galions of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 3) Flush the solution out of the spray tank through the boom.

- 4) Remove the nozzles and screens and flush the system with two full tanks of water. The steps listed below are suggested for thorough cleaning of spray equipment used to apply DICAMBA DMA SALT as a tank mix with wettable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations. DICAMBA DMA SALT tank mixes with water-dispersible formulations require the use of a water/detergent rinse:
- 5) Complete step 1. ✓
- 6) Fill tank with water while adding 2 lbs. of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 7) Flush the detergent solution out of the spray tank through the boom.
- 8) Repeat step 1, and follow with steps 2, 3, and 4.

# GENERAL WEED LIST

This is a general list of weeds which may be treated with DICAMBA DMA SALT in accordance with this label as recommended under the RATES AND TIMING sections of the individual use headings. Proper usage of this product will give control of growth suppression of any annual, biennial, and perennial broadleaf weeds, and many woody brush and vine species including:

# **ANNUALS**

Amaranth, Spiny (Spiny Pigweed)

Aster, Slender

Bedstraw

Beggardweed, Florida

Broomweed, Common

Buckwheat, Wild

Buffalobur

Burclover, California

Burcucumber

Buttercup Roughseed

Carpetweed

Catchfly, Nightflowering

Chamomile, Corn

Chickweed, Common

Clovers (Annual)

Cockle, Corn

Cockle, Cow

Cocklebur, Common

Croton, Tropic

Croton, Woolly

Daisy, English

Evening Primrose, Cutleaf

Mustard (Yellowtops)

Nightshade, Black

Pennycress, Field (Fanweed, Frenchweed

Stinkweed)

Pepperweed, Virginia (Peppergrass)

Pigweed, Prostrate

Pigweed, Redroot (Carelessweed)

Pigweed, Rough

Pigweed, Smooth

Pigweed (triazine resistant)

Pigweed, Tumble

Poorjoe

Puncturevine

Purslane, Common

Pusley, Florida

Radish, Wild

Ragweed, Common

Ragweed, Giant (Buffaloweed)

Ragweed, Lance-Leaf

Rubberweed, Bitter (Bitterweed)

Sesbania, Hemp

Shepherdspurse

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Fleabane, Annual Goosefoot, Nettleleaf

Henbit

Jimsonweed Knotweed Kochia Ladysthumb

Lambsquarters, Common

Lambsquarters (triazine resistant)

Lettuce, Prickly Mallow, Common Mallow, Venice

Mare's Tail (Horseweed)

Mayweed

Moringglory, Ivyleaf Moringglory, Tall Mustard, Tansy Mustard, Wild Sicklepod

Sida, Prickly (Teaweed) Smartweed, Green

Smartweed, Pennsylvania

Sneezeweed, Bitter Sowthistle, Annual Sowthistle, Spiny Spikeweed, Common Spurge, Prostrate Spurry, Corn Starbur, Bristly Sumpweed, Rough

Sunflower, Common (Wild)

Sunflower, Volunteer Thistle, Russian Velvetleaf Waterhemp

Waterprimrose, Winged Wormwood, Annual

# **BIENNIALS**

Burdock, Common

Carrot, Wild (Queen Anne's Lace)

Cockle, White

Evening Primrose, Common

Geranium, Carolina

Gromwell

Knapweed, Diffuse Knapweed, Spotted Mallow, Dwarf Plantain, Bracted Ragwort, Tansy Starthistle, Yellow Sweetclover

Thistle, Bull Thistle, Milk Thistle, Musk Thistle, Plumeless

Teasel

# **PERENNIALS**

\*Alfalfa

Artichoke, Jerusalem

Aster, Spiny

Aster, Whiteheath Beadstraw, Smooth Bindweed, Field

Bindweed, Hedge Blueweed, Texas

\*Bursage (Bur Ragweed, Lakeweed,

Povertyweed)

Milkweed, Climbing

Milkweed, Common Milkweed, Honeyvine

Milkweed, Western Whorled

Nettle, Stinging

Nightshade, Silverleaf (White Horsenettle)

Onion, Wild

\*Plantain, Broadleaf

Plantain, Buckhorn

Pokeweed

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Bursage, Woollyleaf (Lakeweed)

Buttercup, Tall Campion, Bladder Chickweed Field

Chickweed (Mouseear, Canada)

Chicory \*Clover, Hop

\*Dandelion, Common

\*Dock, Broadleaf (Bitterdock)

\*Dock, Curly Dogbane, Hemp

\*Dogfennel (Cypressweed)

Fern, Bracken Garlic, Wild

Goldenrod, Canada Goldenrod, Missouri Goldenweed, Common

Hawkweed Henbane, Black Horsenettle, Carolina

Ironweed

Knapweed, Black Knapweed, Russian Ragweed, Western

Redvine

Sericia Lespedeza Smartweed, Swamp Snakeweed, Broom

\*Sorrel, Red (Sheep Sorrel)

Sowthistle

Sowthistle, Perennial

Spurge, Leafy

Sundrop, Halfshrub (Evening Primrose)

Thistle, Canada Toadflex, Dalmation Tropical Soda Apple

Trumpetcreeper (Buckvine)

Vetch

Waterhemlock

Waterprimrose, Creeping

\*Woodsorrel, Creeping Common Yellow

Wormwood, Common Wormwood, Louisiana

\*Yankeeweed Yarrow, Common

\*Noted perennials may be controlled using DICAMBA DMA SALT at rates lower than those recommended for other listed perennial weeds. (See APPLICATION RATES AND TIMINGsection in this label.)

# WOODY.

Alder Ash Aspen Basswood Beech Birch \*Blackberry

\*Blackgum \*Cedar

Cherry

Chinquapin Cottonwood \*Creosotebush Cucumbertree

Locust, Black

Maple Mesquite Oak

Oak, Poison Olive, Russian

Persimmon, Eastern

Pine

\*Plum Sand (Wild Plum)

Poplar

Rabbitbrush

\*Redcedar, Eastern

\*Rose, McCartney

\*Rose, Multiflora



\*Dewberry

\*Dogwood

Elm

Grape

\*Hawthorn, (Thornapple)

Hemlock Hickory

Höneylocust Honeysuckle

Hornbeam Huckleberry

Huisache

Ivy, Poison

Kudzu

Sagebrush, Fringe

Sassafras

Serviceberry

Spicebush

Spruce

Sumac

\*Sweetgum

Sycamore

Tarbush

Willow

Witchhazel

\*Yaupon

\*Yucca

\*Growth Suppression

# FIELD, SEED\*, POPCORN\* AND SILAGE CORN

\*Do not apply DICAMBA DMA SALT to seed corn or popcorn without first verifying with your local seed corn company (supplier) the DICAMBA DMA SALT selectivity on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Observe all precautions, mixing and application instructions. ho

DICAMBA DMA SALT is not registered for use on sweet corn.

Direct contact of DICAMBA DMA SALT with corn seed must be avoided. If corn seeds are less than 1 1/2 inches below the surface, delay application until corn has emerged.

Up to 2 applications of DICAMBA DMA SALT may be made during a growing season. Do not exceed a total of 1 1/2 pints of DICAMBA DMA SALT Herbicide per treated acre per crop year. Allow two weeks or more between applications. See appropriate section for rate information. For combination options or sequential treatments, refer to appropriate section.

Applications of DICAMBA DMA SALT to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Cultivation should be be delayed until after corn is growing normally to avoid breakage.

Agriculturally approved surfactants or sprayable fertilizers (1/2 to 1 gallon per acre of 28%, 30% or 32% urea ammonium nitrate or 2.5 pounds per acre spray grade ammonium sulfate) may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

<sup>1</sup>Not for use in California. <sub>L</sub>

Do not use adjuvants containing penetrates such as petroleum-based oils after crop emergence or crop injury may result.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

Several synthetic pyrethroid insecticides are labeled for tank mix applications of DICAMBA  $\nu$  DMA SALT. Refer to their label for specific recommendations.

# WEEDS CONTROLLED

DICAMBA DMA SALT will control many annual broadleaf weeds or give growth suppression of many perennial broadleaf weeds commonly found in corn. (Refer to the GENERAL WEED LIST.)

For best performance, make application when weeds have emerged and are actively growing.  $\nu$ 

Preemergence control of cocklebur, velvetleaf, and jimsonweed may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

# PREPLANT/PREEMERGENCE IN NO-TILLAGE CORN

Applications of DICAMBA DMA SALT may be made before, during, or after planting to emerged and actively growing broadleaf weeds. Apply DICAMBA DMA SALT at 1 pint per treated acre on medium or fine textured soils containing 2% or greater organic matter. Use 1/2 pint per treated acre on coarse textured soils (sand, sandy loam, and loamy sand) or medium and fine textured soils with less than 2% organic matter.

When planting into a legume sod (e.g., alfalfa or clover), apply DICAMBA DMA SALT after 4 to  $\mu$  6 inches of regrowth has occurred.

# PREEMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN

DICAMBA DMA SALT may be applied after planting and prior to corn emergence. Application at 1 pint per treated acre may be made to medium or fine textured soils which contain 2% or greater organic matter. DO NOT apply to coarse textured soils (sand, sandy loam, and loamy sand) until after crop emergence (see EARLY POSTEMERGENCE uses below).

Preemergence application of DICAMBA DMA SALT does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if application is not problem to be adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) which concentrate treated soil over seed furrow.

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# EARLY POSTEMERGENCE (ALL TILLAGE SYSTEMS) (SPIKE THROUGH 8 INCH TALL CORN)

DICAMBA DMA SALT at 1 pint per treated acre may be applied during the period from corn emergence through the five leaf stage or 8 inches tall, whichever comes first. Reduce the rate to 1/2 pint per treated acre if corn is growing on coarse textured soils (sand, sandy loam, and loamy sand). See LATE POSTEMERGENCE APPLICATIONS given below if the 6th true leaf is emerging from whorl or corn is greater than 8 inches tall.

# LATE POSTEMERGENCE (ALL TILLAGE SYSTEMS) (8 TO 36 INCH TALL CORN)

Application of DICAMBA DMA SALT at 1/2 pint per treated acre may be made from 8 to 36 inch tall corn or 15 days before tassel emergence, whichever comes first. For best performance, make applications when weeds are less than 3 inches tall.

Make directed spray application when (1) corn leaves prevent proper spray coverage; (2)  $\mu$  sensitive crops are growing nearby; (3) tank mixing with 2,4-D.

DO NOT apply DICAMBA DMA SALT when soybeans are growing nearby if any of these conditions exist:

1 corn is more than 24 inches tall

- soybeans are more than 10 inches tall
- soybeans have begun to bloom

# OVERLAY (SEQUENTIAL) TREATMENTS

DICAMBA DMA SALT Herbicide may be applied to ground previously treated with one or more of the following herbicides:

acetochlor (Surpass®, Harness® Plus)

alachlor (Lasso®, Lasso® MT, Partner®)

atrazine

Bicep®

Broadstrike™ + Dual®

Broadstrike™ Plus

Bronco®

Bullet®

butylate (Sutan® +/Genate®)

Clarity®

cyanazine (Bladex®)

dimethenamid (Frontier®)

EPTC (Eradicane®)

Extrazine® II

glyphosate (Roundup®)

Guardsman®

halosulfuron(Battalion®, Permit®)

Lariat®

(Dicamba plus Atrazine)

metolachlor (Dual)

paraquat (Gramoxone®)

pendimethalin (Prowi®)

propachlor (Ramrod D)

simazine(Princep®)

Surpass® 100

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Apply DICAMBA DMA SALT at 1/2 pint per treated acre to ground previously treated with full rates of Clarity or Dicamba plus Atrazine Herbicides. Allow at least 2 weeks between applications.

Read and follow label directions for each of the above products

# TANK MIX TREATMENTS FOR CORN

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

# **RATES AND TIMINGS**

DICAMBA	Preplant	Preemer-gent	Early	Late	Additional
DMA SALT	Preemerg-	(Conven-	Post-	Post-	Directions
Plus	ent (No	tional or	emergent	emergent	
	Tillage	Reduced	(All	(All	1
	Corn)	Tillage Corn)	Tillage	Tillage	
<u> </u>			Systems)	Systems)	
ACCENT®	·		1/2-1 oz.	1/2-1 oz.	Application may be
(nicosul-			a.i./A	a.i./A. To	made to emerged
furon)				improve spray	weeds before corn is
				coverage of	greater than 24 inches
				weeds and	tall. Use non-ionic
				reduce risk of	surfactant at .25%
	•			corn injury, use	(v/v) with this tank
				drop pipes to	mixture.
1	1		<u> </u>	direct spray	
			į	beneath corn	
				leaves when	
				corn is greater	
	i			than 8 inches	
	,			tall.	
Atrazine	1 1/4-2 lbs,	1 1/4-2 lbs.	11/4-2 lbs.	11/4-2 lbs.	Application may be
	a.i./A	a.i./A	a.i./A. Crop	a.i./A. Do not	made before grasses
	<b>√</b>		oil concen-	apply if corn is	are 1 1/2 inches tall.
			trates may be	greater than 12	Follow all state and
			used with	inches tall.	federal restrictions
			this mixture/if	,	pertaining to atrazine
			corn is 5		applications.
			inches or less		
			in height.		l english
BEACON®	_		0.31-0.62 oz./	0.31-0.62 oz.	Application may be
(primisul-			a.i./A	a.i./A. To	made to emerged
furon)				improve spray	weeds when com is 4

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	<del></del>				1- 04 21 11 TT .
				coverage of	to 24 inches tall. Use
				weeds and	non-ionic surfactant at
·	•	•		reduce risk of	.25% (v/v) with this
				corn injury, use	tank mixture.
ļ				drop pipes to	
	-			direct spray	Ì
				beneath corn	
				leaves when	
j				corn is greater	i i
1				than 8 inches	· 1
				tall.	
BLADEX	11/4-4 lbs.	11/4-4 lbs.	1/4-2 lbs.		Application may be
(cyanazine)	a.i./A	a.i./A	a.i./A. Use /	ľ	made before grasses
	/	/	the 90 DF		are 1 1/2 inches tall
		V	formulation		and before corn is
	ν	-	only after		beyond the 4 leaf
			1 .		stage.
			corn emerg-		stage.
DUAL	11/2-3 lbs.	11/2216	ence.) 1 1/2-3 lbs.	1	Application may be
1 :	•	1.1/2-3 lbs.	1 '		Application may be
(metolachlor)	a.i./A	a.i./A. Use	a.i./A	ľ	made before grasses
		only on fine	\ \ \		reach the 2 leaf stage
	. 🗸	or medium V		•	and before corn is
		textured soils			greater than 3 inches
		with 2.5% or			tall.
		greater or-			
		ganic matter.	ļ. <u> </u>		
FRONTIER®	13-25 fl. oz.	13-25 fl. oz.	13-25 Fb 02		Application may be
(dimethe-	a.i./A	/A. Use only	13-231004	4	made up to 8 inch tall
namid)		on fine or	1		corn. This treatment
·		medium V			must be combined
<u>'</u>	•	textured soils			with a herbicide that
		with 2.5% or		·	provides ~
		greater			postemergence
		organic			control of grass weeds
		matter.			if they are greater
	,	[			than 1 inch tall at the
					time of application.
FRONTIER®	16 to 32 fl.	16 to 32 fl.	16 to 32 fl.	<del>                                     </del>	Application may be
6.0 (dimethe-	oz./A	oz./A. Use	oz./A		made up to 8 inch tall
namid)		only on fine	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	†	corn. This treatment
1 101110)		or medium	"		must be combined
]		textured soils			with a herbicide that
		with 2.5% or	1		
					provides
		greater 🗸			postemergence
		organic	· '		control of grass weeds
		matter.			if they are greater
	ŀ	1	1	1	I than I inch (cli at the
					than 1 inch tall at the time of application.

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GRAMOX-	1/4-1 lb. /	1/4115 /		<del></del>	Application may be
ONE	† '	1/4-1 lb.			Application may be
Į	a.i./A	a.i./A			made to emerged
(paraquat)					weeds but prior to
<u> </u>					corn emergence.
HARNESS	1 1/2-3 lbs.	1 1/2-3 lbs.			Application should be
PLUS or	a.i./A	a.i./A. Use			made prior to corn
SURPASS		only on fine	:		emergence.
(acetochlor)		or medium		1	
	"	textured soils			
1	1	with 2.5% or /			†
		greater i			
<u> </u> 		organic		Į.	
		matter.			i i
LASSO	1 1/2-4 lbs.	11/2-4 lbs.	1 1/2-4 lbs.		Application may be
(alachlor)	a.i./A	a.i./A. Use	a.i./A		made before grasses
(	/	only on fine			reach the 2 leaf stage
		textured soils	, V		and before corn is
	1	with greater		1	greater than 3 inches
į		than 2.5%	}		tall. If micro-
‡	ļ	organic		<b>!</b>	encapsulated forms of
·		matter.	1	1	alachlor are used
1	1	natter.	Ī		1
1					(Lasso MT, Partner),
1		1	<u> </u>		applications must be
		ļ	į	]	made prior to grass
PRINCEP	225	0.015	<u> </u>		emergence.
	2-3 lbs.	2-3 lbs. a.i./A			Application may be
(simazine)	a.i./A			ļ	made prior to com or
	<u> </u>				weed emergence.
PROWL		3/4-1 1/2 lbs.	3/4-1 1/2 lbs	1	Application may be
(pendi-		a.i./A. Use	a.i./A	]	made immediately
methalin)		only on fine	<u> </u>		after planting but
		or medium	‡ •	1	prior to weed
<u> </u>		textured soils			emergence. Corn
		with 2.5% or			should not be beyond
		greater 🗸		·	the 2-leaf stage of
		organic			growth.
		matter.	<u> </u>		
ROUNDUP	1-3 lbs.	1-3 lbs. a.i./A			Application may be
(glyphosate)	a.i./A			·	made to emerged
			[	1	weeds but prior to
1			ļ :	į	corn emergence.
STINGER™			0.035-0.07 lbs.	0.035-0.07 lbs.	Application may be
(clopyralid)		-	a.i./A	a.i./A	made any tinie after
1,,,		‡	' /		corn emergence
1					torough 24 inch tall
<b>!</b>		1	İ	1	corn. Use drop
‡			<u> </u>  -  -	‡	nozzles to direct spray
			‡		after corn exceeds the
L	<u>t                                      </u>	L	<u> </u>	<u> </u>	furter com executes like

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						8 inch stage. Apply when the majority of the thistle plants have	
	· 1					emerged and are at	
	†					least 4 inches in	
1			-			height, but before bud	
				ļ		stage. Use higher	
l			·			rates listed for stand	ŀ
1						reduction of larger	
١				Ì		thistle plants or	
				•		heavier infestations.	
į		ļ				Lower rates listed	
			ļ			may provide scasonal	
Ì						thistle suppression	
	j	1				only.	ŀ
	TOUGH®			0.47 lb. a.i./A	0.47-0.94 lb.	Applications may be	
	3.75 EC				a.i./A	made to emerged,	
	(pyridate)			,/	\ \/	actively growing	
						weeds. Directed	Ì
						applications are	
						recommended when	
	.					corn is large enough	
						to prevent proper	
					<u> </u>	spray coverage.	
	2,4-D	1/4-1/2 lb.	1/4-1/2 lb.	Not recom-	1/8 lb. a.i./A	Drop pipes are to be	
		a.i./A	a.i./A	mended		used when corn	
		. /		. /		height is 8 inches or	
						greater. Keeping the	
						spray off the corn	
					İ	leaves and out of the	
		·				whorl will reduce the	ł
					ļ	likelihood of crop	
						injury and improve	
						spray coverage of weed foliage.	
	1	i	<b>.</b>	<b>\$</b>	1	г weed топаде.	1

# SORGHUM (MILO)

Observe all precautions, including the reference to crops growing under stress. Read and follow MIXING AND APPLICATION instructions.

Applications of DICAMBA DMA SALT to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrow within 10 to 14 days.



Do not graze or feed treated sorghum forage or silage prior to mature grain stage. If sorghum is grown for pasture or hay, refer to the PASTURE use section. Do not apply DICAMBA DMA & SALT to sorghum grown for seed production.

Make no more than one application per growing season.

# WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at the recommended rate for sorghum, will control many actively growing annual broadleaf weeds and will reduce competition from established perennial broadleaf weeds as well as control their seedlings. (Refer to GENERAL WEED LIST.)

#### RATES AND TIMINGS

DICAMBA DMA SALT, may be applied to emerged and actively growing weeds at least 15 days prior to planting. Postemergence application of DICAMBA DMA SALT must be made after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15 inches tall. For best performance, make applications when sorghum is in the 3 to 5 leaf stage and weeds are small (less than 3 inches tall). Use drop pipes (drop nozzles) if sorghum is taller than 8 inches. Keeping the spray off the sorghum leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

BROADCAST RATE PER TREATED ACRE: 1/2 pint (1/4 lb a.i.)

# TANK MIX TREATMENTS

# DICAMBA DMA SALT PLUS ATRAZINE

For improved control of emerged, actively growing broadleaf weeds including triazine-resistant species and added suppression of perennial broadleaf weeds, tank mix 1/2 pint DICAMBA DMA SALT with 0.5 to 1.25 lbs. a.i. atrazine per treated acre. For control of grasses (less than 1.5 inches tall), tank mix 1/2 pint DICAMBA DMA SALT with 2 lbs. a.i. atrazine per treated acre. For best performance and minimal crop injury, make application when sorghum is 3-8 inches tall and when broadleaf weeds are small (less than 6 inches tall). Application of atrazine must be made before sorghum is beyond 12 inches tall. The atrazine rate will depend upon soil texture and length of residual weed control desired. Follow all State and Federal restrictions pertaining to atrazine applications.

# DICAMBA DMA SALT PLUS BUCTRIL®

For improved control of broadleaf weeds, tank mix 1/2 pint DICAMBA DMA SALT with 1-1 1/2 pints Buctril Herbicide per treated acre. Make application at 4 leaf to 15 inch tall sorghum. Use drop nozzles to direct spray beneath sorghum leaves when sorghum is greater than 8 inches tall.

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and timings and other restrictions.

# OVERLAY (SEQUENTIAL) TREATMENTS

DICAMBA DMA SALT may be applied to ground previously treated with one or more of the following herbicides registered for use in corn:

Herbicide	Maximum Rate Per Treated Acre (Ibs a.i.)
alachlor (Lasso) (Screen®-treated seed)	4
atrazine¹	2.5
metolachlor (Dual) (Concep®-treated	2.5
seed)	
propachlor (Ramrod)	5 🗸

<sup>&</sup>lt;sup>1</sup>Maximum use rate for atrazine is determined by soil type, tillage practices, surface residue, and state or local restrictions. Follow the more restrictive requirements when determining the maximum use rate for atrazine.

# PREHARVEST USES (FOR USE ONLY IN THE STATES OF TEXAS AND OKLAHOMA)

DICAMBA DMA SALT may be applied for weed suppression any time after the sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial application use at least 2 gallons of water-based carrier per treated acre.

Delay harvest until 30 days after treatment.  $\vdash$ 

BROADCAST RATE PER TREATED ACRE: 1/2 pint (1/4 lb a.i.)  $\nu$ 

# SMALL GRAINS (WHEAT, BARLEY AND OATS) NOT UNDERSEEDED TO LEGUMES

Observe all precautions. Read and follow cleaning, mixing and application instructions.

If small grains are used for pasture or hay, the following restrictions apply:

- Animals cannot be removed from treated area for slaughter prior to 30 days after last papplication.
- There is no waiting period between treatment and grazing for non-lactating dairy animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- Do not harvest hay from treated areas before 37 days after treatment.

Note: Observe all precautions and restrictions on the labels of products used in tank mix treatments.

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#### WEEDS CONTROLLED

DICAMBA DMA SALT or combinations with listed tank mix partners will provide control or suppression of the annual broadleaf weeds listed below. For improved control of listed weeds,  $\nu$  it is recommended that DICAMBA DMA SALT be applied in a tank mix with other herbicides. Refer to specific crop for tank mix options.

Alkanet1

Bedstraw, Catchweed<sup>1</sup>

Bindweed, Field<sup>2</sup>

Buckwheat, Tartary

Buckwheat, Wild

Carpetweed1

Chamomile, Corn

Chervil, Bur1

Chickweed, Common<sup>1</sup>

Cockle, Corn

Cockle, Cow

Cocklebur, Common

Cornflower (Bachelorbutton)1

Dandelion, Common<sup>2</sup>

Dock, Curly<sup>2</sup>

Dragonhead, American<sup>1</sup>

Evening Primrose, Cutleaf<sup>1</sup>

Falseflax, Smallseeded1

Fiddleneck (Tarweed)1

Flixweed1

Fumitory1.

Gromwell, Corn<sup>1</sup>

Groundsel, Common<sup>1</sup>

Hempnettle<sup>1</sup>

Henbit

Jacobs Ladder<sup>1</sup>

Knawel (German Moss)

Knotweed, Prostrate

Kochia

Ladysthumb

Lambsquarters, Common

Lettuce, Miners1

Lettuce, Prickly

Mallow, Common

Mayweed, Chamomile (Dogfennel)1

Pepperweed, Peppergrass<sup>1</sup>

Mustard, Blue (Purple)1

Mustard, Tansy

Mustard, Treacle<sup>1</sup>

Mustard, Tumble (Jim Hill)<sup>1</sup>

Mustard, Wild1

Nightshade, Black

Nightshade, Cutleaf1

Nightshade, Silverleaf<sup>2</sup> (White Horsenettle)

Pennycress, Field (Fanweed, Frenchweed,

Stinkweed)

Pigweed, Redroot (Carelessweed)

Pigweed, Rough

Pigweed, Tumble

Pineappleweed<sup>1</sup>

Plantain, Broadleaf<sup>2</sup>

Poppy, Red Horned<sup>1</sup>

Puncturevine<sup>1</sup>

Purslane, Common<sup>1</sup>

Radish, Wild<sup>1</sup>

Ragweed, Common<sup>1</sup>

Ragweed, Giant (Buffaloweed)1

Rocket, London<sup>1</sup>

Rocket, Yellow<sup>1</sup>

Salsify (Goatsbeard)1

Shepherdspurse1

Smartweed, Green

Smartweed, Pennsylvania

Sorrel, Red (Sheep Sorrel)1

Sowthistle, Annual

Starthistle, Yellow<sup>1</sup>

Sunflower, Common (Wild)

Thistle, Canada<sup>2</sup>

Thistle, Russian

Velvetleaf

Vetch1

Yarrow, Common<sup>2</sup>

US)

<sup>1</sup>These weeds will be controlled with DICAMBA DMA SALT tank mixtures. Refer to tank mix label for specific weeds control.

<sup>2</sup>DICAMBA DMA SALT tank mixes will provide suppression of established broadleaf weeds, and control of their seedlings.

## RATES AND TIMINGS

Application of DICAMBA DMA SALT may be made before, during or after planting of small grains. For best performance, make applications when weeds are in the 2-3 leaf stage and rosettes are less than 2 inches across. Application of DICAMBA DMA SALT to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields.

Use DICAMBA DMA SALT at 2 to 4 fluid ounces per treated acre in wheat, fall seeded barley, and oats, and at 2 to 3 fluid ounces per treated acre in spring seeded barley. Use the higher level of listed rate ranges when treating difficult to control weeds such as kochia, Russian thistle and prickly lettuce or dense vegetative growth.

DICAMBA DMA SALT used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to specific crop for DICAMBA DMA SALT rate and application timing.

For applications prior to the emergence of weeds or when sulfonylurea-resistant weeds are present or suspected, use a minimum of 3 fluid ounces per treated acre of DICAMBA DMA SALT with a tank mix herbicide. Non-sulfonylurea herbicides, such as 2,4-D or MCPA tank mixed with DICAMBA DMA SALT, will offer more consistent control of sulfonylurea resistant weeds.

When tank mixing with sulfonylurea herbicides, such as Ally®, Amber®, Express®, Finesse®, Glean® and Harmony® Extra, use an agriculturally approved surfactant of at least 80% active ingredient at the rate of 1-4 pints/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature and difficult to control weeds or dense vegetative growth.

# FALL AND SPRING SEEDED WHEAT

DICAMBA DMA SALT must be applied to fall seeded wheat prior to the joining stage. Applications to spring seeded wheat must be made before wheat exceeds the 5 leaf stage.

# TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, and geographic and other restrictions.

# BROADCAST RATE PER TREATED ACRE1

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Pre
			Acre
2,4-D amine or ester	2,4-D	4 lb/gal	8-12 fl oz
			(.25375 lb a.i./ A) <sup>2</sup>
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb
			a.i./A) <sup>2</sup>
Ally	metsulfuron-methyl	60% DF ~	1/10 oz 📈
Amber	triasulfuron 🗸	75% DF 🗸	0.28 oz
Express	thifensulfuron +	75% DF	1/6 oz
•	tribenuron-methyl		
Finesse	chlorsulfuron +	75% DF	1/3 oz
•	metsulfuron-methyl		
Glean	chlorsulfuron 🗸	75% DF	1/6 oz —
Harmony Extra	thifensulfuron +	75% DF	1/3 oz
•	tribenuron-methyl /		
Buctril	bromoxynil <sup>3</sup>	2 lb/gal	1-1 1/2 pts
Bronate®	bromoxynil +	4 lb/gal	1-2 pts
	MCPA		
Curtail™	clopyralid + 2,4-D 🗸	2.38 lb/gal -	2-2 2/3 pts
Stinger	clopyralid	3 lb/gal	1/4-1/3 pt
Karmex®4	diuron <sup>3</sup>	80% DF 🗸	1/2-1 1/2 lbs
Sencor®4	metribuzin³	75% DF	1-10 oz L
Dakota®5	fenoxaprop-ethyl +	3.1 lb/gal	16 oz
	MCPA 1	, , ,	
Tiller® <sup>5</sup>	fenoxaprop-ethyl +	2.7 lb/gal	1-1.7 pts
	MCPA + 2,4-D	, ,	· ·

¹DICAMBA DMA SALT sprayed on fall seeded wheat variety TAM 107 in Colorado may cause unacceptable crop injury. DICAMBA DMA SALT should be used only if crop injury is acceptable. Caution should be used when spraying DICAMBA DMA SALT on early maturing fall seeded wheat varieties such as Madison and Wakefield. Crop staging to verify pre-jointing should be made prior to the application or unacceptable crop injury may occur.

Use 2 fluid ounces of DICAMBA DMA SALT only. Do not use if wild oats is the target weed.

Do not use DICAMBA DMA SALT as a tank mix treatment with Dakota or Tiller on Durum wheat.



<sup>✓ &</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

<sup>✓ &</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulation may be used.

<sup>✓ &</sup>lt;sup>4</sup>Tank mixtures for fall seeded wheat only.

# SPECIAL USE TANK MIXES FOR SPRING AND FALL SEEDED WHEAT (SEE FOOTNOTES FOR APPLICABLE USES)

Apply 3-41 fluid ounces DICAMBA DMA SALT with:

Active Ingredient	Formulation	Amount of Product Per
		Acre
2,4-D or MCPA	4 lb/gal	1-2 pts <sup>3</sup> (.5-1.0 lb ai/A) <sup>4</sup>
2,4-D or MCPA	4 lb/gal	1-1 1/2 pts <sup>3</sup> (.575 lb ai/A) <sup>4</sup>
metsulfuron-methyl	60% DF 🗸	1/20-1/10 oz
triasulfuron	75% DF	0.14-0.28 oz
thifensulfuron +	75% DF	1/12-1/6 oz
tribenuron-methyl		
chlorsulfuron +	75% DF	1/6-1/3 oz
metsulfuron-methyl	<b>r</b>	, ,
chlorsulfuron	75% DF 🗸	1/6 oz
thifensulfuron +	75% DF	1/6-1/3 oz
tribenuron-methyl		
	60% DF + 4 lb/gal	1/20-1/10 oz. + 8 fl oz
		-
<del></del>	75% DF + 4 lb/gal	0.14 oz0.28 oz + 8 fl oz
_,,	110, 8	
(thifensulfuron +	75% DF + 4 lb/gal	1/12-1/6 oz: + 8 fl oz
,	./	, , , , , , , , , , , , , , , , , , , ,
·	75% DF + 4 lb/gal	1/6-1/3 oz + 8 fl oz
,		
,		
	75% DF + 4 lb/gal	1/6 oz. + 8 fl oz
	V	",11==
	75% DF + 4 lb/gal	1/6-1/3 oz + 8 fl oz
;	/	-,,
,		
	3 lb/gal	12-16 il oz 4
	2,4-D or MCPA  2,4-D or MCPA  metsulfuron-methyl triasulfuron thifensulfuron + tribenuron-methyl chlorsulfuron + metsulfuron-methyl chlorsulfuron	2,4-D or MCPA  2,4-D or MCPA  4 lb/gal  metsulfuron-methyl triasulfuron thifensulfuron+ metsulfuron-methyl chlorsulfuron thifensulfuron+ tribenuron-methyl metsulfuron-methyl metsulfuron-methyl metsulfuron-methyl triasulfuron+ tribenuron-methyl triasulfuron+ tribenuron-methyl  (thifensulfuron+ tribenuron-methyl)+ 2,4-D  (chlorsulfuron+ metculfuron-methyl) + 2,4-D  (thifensulfuron+ tribenuron-methyl) + 2,4-D  (thifensulfuron+ tribenuron-methyl) + 2,4-D  (thifensulfuron+ tribenuron-methyl) + 2,4-D  (thifensulfuron+ T5% DF + 4 lb/gal  75% DF + 4 lb/gal

DICAMBA DMA SALT may be used at 6 fluid ounces on fall seeded wheat in western Oregon as a spring application only. In CO, KS, NM, OK and TX up to 8 fluid ounces of DICAMBA DMA SALT may be applied on fall seeded wheat after it exceeds the 3 leaf stage for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. DICAMBA DMA SALT may be tank mixed with 2,4-D amine at 8 fluid ounces after wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, do not use if the potential for crop injury is not acceptable.

<sup>2</sup>Do not use low rates of sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean and Harmony Extra on more mature weeds and/or on dense vegetative growth.

<sup>3</sup>NOTE: For use on Fall Seeded Wheat Only. Do not use unless potential crop injury will be acceptable.

4When using formulations other than 4 lb/gal, use pounds active/acre listed. ~

<sup>5</sup>Use for improved control of Russian thistle, flixweed, gromwell, mayweed and fiddleneck.

<sup>6</sup>DICAMBA DMA SALT may be applied at 2 fluid ounces with Roundup RT or any glyphosate formulation labeled for use as a preplant application to small grains with no waiting period prior to planting. Read and follow label directions of the tank mix product for adjuvant use  $\nu$  recommendations.

# **FALL SEEDED BARLEY**

DICAMBA DMA SALT must be applied to fall seeded barley prior to the jointing stage.

NOTE: For spring barley varieties that are seeded during the winter months or later, follow the p rates and timings given for spring seeded barley.

# TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for puse, weeds controlled, geographic and other restrictions

# BROADCAST RATE PER TREATED ACRE

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal 🔑	8 fl oz (0.25 lb ai/A) <sup>2</sup>
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (0.25-0.375 lb ai/A)
Ally	metsulfuron-methyl	60% DF	1/20-1/10 oz
Amber	triasulfuron	75% DF 🗸	0.14-0.29 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12-1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6-1/3 oz
Glean	chlorsulfuron	75% DF 🗸	1/6 cz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6-1/3 oz
Sencor	metribuzin³	75% DF 🗸	1-10 oz
Buctril	bromoxynil	2 lb/gal	1-1 1/2 pts

Bronate	bromoxynil + MCPA	4 lb/gal	3/4-1 1/2 pts

<sup>&</sup>lt;sup>1</sup>Do not use low rates of sulfonylureas (Ally, Amber, Express, Glean, and Harmony Extra) on more mature weeds and/or dense vegetative growth.

# SPRING SEEDED BARLEY

DICAMBA DMA SALT must be applied before spring seeded barley exceeds the 4 leaf stage. 1

# TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

# **BROADCAST RATE PER TREATED ACRE**

Apply 2-3 fluid ounces DICAMBA DMA SALT with: 4

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per
	_	-	Acre
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb
			ai/A) <sup>2</sup>
Ally_	metsulfuron-methyl	60% DF 🗸	1/20-1/10 oz
Amber	triasulfuron	75% DF 🗸	0.14-0.28 oz
Express	thifensulfuron +	75% DF	1/12-1/6 oz
<u> </u>	tribenuron-methyl		
Finesse	chlorsulfuron +	75% DF	1/6-1/3 oz
	metsulfuron-methyl		
Glean	chlorsulfuron	75% DF 🗸	1/6 oz -
Harmony Extra	thifensulfuron +	75% DF	1/6-1/3 oz
	tribenuron-methyl		
Sencor	metribuzin³	75% DF 🗸	1-10 oz
Buctril	bromoxynil	2 lb/gal	1-1 1/2 pts
Bronate	bromoxynil + MCPA	4 lb/gal	3/4-11/2 pts

<sup>&</sup>lt;sup>1</sup>Do not use low rates of sulfonylureas (Ally, Amber, Express, Glean, and Harmony Extra) on more mature weeds and/or dense vegetative growth.

<sup>&</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulations may be used.



<sup>&</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

<sup>&</sup>lt;sup>3</sup>Herbicides with the same active ingredient and/or different formulations may be used. 4

<sup>&</sup>lt;sup>2</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### FALL AND SPRING SEEDED OATS

DICAMBA DMA SALT must be applied before spring seeded oats exceed the 5 leaf stage. Applications to fall seeded oats must be made prior to the jointing stage.

#### TANK MIX TREAMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

# BROADCAST RATE PER TREATED ACRE

Apply 2-4 fluid ounces DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
MCPA amine or ester	MCPA	4 lb/gal	8-12 fl oz (.25375 lb a.i./A) <sup>1</sup>

<sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### SUGARCANE

Observe all precautions. Read and follow MIXING AND APPLICATION instructions.

Consult your local or state authorities for possible application restrictions, especially concerning aerial applications and advice concerning special local use situations.

# WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at the recommended rates, will control many annual, biennial and perennial broadleaf weeds commonly found in sugarcane. (Refer to GENERAL, WEED LIST.)

# RATES AND TIMINGS

Application of DICAMBA DMA SALT may be made any time after weeds have emerged and are actively growing but before the close-in stage of sugarcane. Application rates and timings of DICAMBA DMA SALT are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

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Weed Stage & Type	Product Amount	Broadcast Rate Per Treated Acre (lbs a.i.)	
Annual	,		
Small, actively growing	1/2-1 pt	1/4-1/2	
Established growth	1-1 1/2 pts	1/2-3/4	
Biennial	1-2 pts 🗸	1/2-1	
Perennial	2-4 pts /	1-2*	

<sup>\*</sup>Application made over the top of actively growing sugarcane may result in crop injury.

When possible, direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage  $\mu$  of weed foliage.

Retreatments may be made as needed; however, do not exceed a total of 4 pints (2 lbs a.i.) of  $\nu$  DICAMBA DMA SALT per treated acre during a growing season.

# TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

Herbicide	Rate Per Treated Acre (lbs a.i.)
ametryn (Evik®)	2/5-8
asulam (Asulox®)	2-3 1/3
atrazine	2/5-4 🗸
2,4-D	1/2-3*

<sup>\*</sup>Application of DICAMBA DMA SALT plus 2,4-D tank mix at the higher listed rate ranges may result in crop injury.

# PASTURE, HAY, RANGELAND AND GENERAL FARMSTEAD (NON-CROPLAND)

DICAMBA DMA SALT is recommended for use on pasture, hay, rangeland, general farmstead (non-cropland including fence rows and non-irrigation ditchbanks) for broadleaf weed and brush control. DICAMBA DMA SALT may also be applied to non-cropland areas for the control of broadleaf weeds in noxious weed control programs. Districts or areas including broadcast or spot treatment of roadsides and highways, utilities, railroad and pipeline rights-of Noxious weeds must be recognized at the state level but programs may be administered at state, county or other level

Observe all precautions. Read and follow mixing and application instructions.

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DICAMBA DMA SALT uses described in this section also pertain to small grains (such as barley, forage sorghum, oats, rye, sudangrass or wheat) grown for pasture use only.

Newly seeded areas, including small grains grown for pasture may be severely injured if rates of Dicamba DMA Salt greater than 1 pint/A are applied.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Furthermore, rates of DICAMBA DMA SALT in excess of 2 quarts (2 lbs a.i.) per treated acre may cause temporary injury to many grass species.

Bentgrass, carpetgrass, buffalograss and St. Augustine grass may be injured at rates exceeding 1 pint DICAMBA DMA SALT (1/2 lb a.i.) per treated acre. Usually colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

Animals cannot be removed from treated area for slaughter prior to 30 days after last application. There is no waiting period between treatment and grazing for non-lactating animals.

# TIMING RESTRICTIONS FOR LACTATING DAIRY ANIMALS FOLLOWING TREATMENT

DICAMBA DMA SALT Rate per Treated Acre	Days Before Grazing	Days Before Hay Harvest
Up to 1 pint (1/2 lb a.i.)	7 days	37 days
Up to 1 quart (1 lb a.i.)	21 days	51 days
Up to 2 quarts (2 lbs a.i.)	40 days	70 days

NOTE: Observe all precautions and restrictions on labels of products used in tank mixtures.

#### MIXING AND APPLICATION

DICAMBA DMA SALT can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier. A compatibility test (see COMPATIBILITY TEST section) should be made prior to tank mixing.

To prepare oil in water emulsions, half-fill spray tank with water. Then add the appropriate amount of emulsifier with continuous agitation. Slowly add the herbicide and then the oil (such as diesel oil or fuel oil) or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

DICAMBA DMA SALT may be applied broadcast using either ground or aerial application equipment. When using ground equipment, apply 3 to 600 gallons of diluted spray per treated acre. Volume of spray applied will depend on the height, density, and type of weeds or brush



being treated and on the type of equipment being used. When using aerial equipment, apply 1 to 40 gallons of diluted spray per treated acre in a water-based carrier.

DICAMBA DMA SALT may be applied to individual clumps or small areas (spot treatment) of undesirable vegetation using handgun or similar types of application equipment. Apply  $\nu$  diluted sprays to allow complete wetting (up to run-off) of foliage and stems.

Herbicide adjuvants or other spray additives (emulsifiers, surfactants, wetting agents, drift control agents, or penetrants) may be used for wetting, penetration, or drift control. Spray additives must be agriculturally approved when used in pasture applications. If spray additives are used, read and follow all use recommendations and precautions on product label.

# WEED CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will give control of many annual, biennial, and perennial broadleaf weeds, and many woody brush and vine species commonly found in pasture, hay, rangeland and general farmstead (non-cropland) areas. (Refer to GENERAL WEED LIST.) Perennial weeds noted with a asterisk (\*) may be controlled with lower rates of either DICAMBA DMA SALT or DICAMBA DMA SALT plus 2,4-D. See RATES AND TIMINGS below.

# RATES AND TIMINGS

Application rates and timing of DICAMBA DMA SALT are given below. Use the higher level of listed rate ranges when treating dense or tall vegetative growth.

Weed Stage & Type	Product Amount	Broadcast Rate Per Treated Acre (lbs a.i.)
Annual		1
Small, actively growing	1/2-1 pt 🗸	1/4-1/2
Established weed growth	1/2-1 pt 1-1 1/2 pts 1-1 1/2 pts 1-1	1/2-3/4
Biennial <sup>1</sup>		
Rosette diameter		
Less than 3 inches	1/2-1 pt 🖊	1/4-1/2
3 inches or more	1/2-1 pt 1-2 pts	1/4-1/2
Bolting	2-3 pts	1-1 1/2
Perennial		***
Suppression or top growth control	1/2-1 qt 🛩	1/2-1
Noted (*) Perennials	1-2 qts 🗸	1-2
Other Perennials	2 qts 🗸	2



Woody Brush & Vines		
Top growth suppression	1/2-1 qt ✓	1/2-1 🗸
Top growth control <sup>2</sup>	1-2 qts	1-2
Stems and stem suppression	2 qts 🗸	2

<sup>&</sup>lt;sup>1</sup>For best performance, make application when biennial weeds are in the rosette stage.

Retreatments may be made as needed; however, do not exceed a total of 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre during a growing season.

# TANK MIX TREATMENTS

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and other restrictions. DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses, additional broadleaf weeds, and woody brush and vines.

Herbicide	Rate Per Treated Acre (lbs a.i.)	
Pasture, hay, rangeland and general farmstead		
(non-cropland) use:		
glyphosate (Roundup)	3/4-3 3/4	
metsulfuron methyl (Ally)	0.0038-0.011	
paraquat (Gramoxone)	1/2-1 🗸	
picloram (Tordon™)	1/8-3 🗸	
tricolopyr (Garlon®)	3/4-9	
2,4-D	1/4-6	

Due to the variations that may occur in formulated products and specific use ingredients (e.g. water supplies), a compatibility test (see COMPATIBILITY TEST section) is recommended prior to actual tank mixing.

#### CUT SURFACE TREE TREAMENTS

DICAMBA DMA SALT may be applied as a cut surface treatment for control of unwanted trees and prevention of sprouts of cut trees. A mix of 1 part DICAMBA DMA SALT with 1 to 3 parts water should be used in application. Use the lower dilution when treating difficult-to-control species.

FRILL OR GIRDLE TREAMENTS: Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint cut surface with the DICAMBA DMA SALT/water mix.

<sup>&</sup>lt;sup>2</sup>Species noted in GENERAL WEED LIST section will require tank mixtures for adequate control.

adjacent to the bark should be thoroughly wet.

NOTE: For more rapid foliar effects, 2-4-D may be added to the DICAMBA DMA SALT/water mix.

# DORMANT APPLICATIONS FOR CONTROL OF MUTIFLORA ROSE

DICAMBA DMA SALT can be applied when plants are dormant as an undiluted SPOT-CONCENTRATE directly to the soil or as a LO-OIL BASAL BARK treatment using an oil-water emulsion solution.

SPOT-CONCENTRATE applications of DICAMBA DMA SALT should be applied directly to the soil as close as possible to the root crown but within 6-8 inches of the crown. On sloping terrain, application should be made to the uphill side of the crown. Do not make application when snow or water prevents applying DICAMBA DMA SALT directly to the soil. The use rate of DICAMBA DMA SALT is dependent on the canopy diameter of the multiflora rose. Examples: Use DICAMBA DMA SALT Herbicide at 1/4, 1 or 2 1/4 fluid ounces of product respectively, for 5, 10, or 15 feet canopy diameters. Do not exceed a total of 2 qts. DICAMBA DMA SALT per acre per year.

LO-OIL BASAL BARK applications of DICAMBA DMA SALT should be applied to the basal stem region from the ground line up to a height of 12 to 18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, make application when plants are dormant. Do not make application after bud break or when plants are showing signs of active growth. Do not make application when snow or water prevents applying DICAMBA DMA SALT to the ground line. Refer to MIXING AND APPLICATIONS above in this section for method of preparing oil-in-water emulsion. Example for making approximately 2 gallons of a LO-OIL spray solution mixture: combine 1 1/2 gallons water plus 1 ounce emulsifier plus 1 pint DICAMBA DMA SALT plus 2 1/2 pints of No. 2 diesel fuel. Adjust amounts of materials used proportionately to the amount of final spray solution desired. Do not exceed 8 gallons of spray solution mix applied per acre per year.

# CONSERVATION RESERVE PROGRAM (CRP) ACRES

DICAMBA DMA SALT is recommended for use on both newly seeded and established grasses prown in Conservation Reserve or Federal Set-Aside Programs.

Observe all precautions, MIXING AND APPLICATION directions.  $\nu$ 

DICAMBA DMA SALT treatment will injure or may kill alfalfa, clovers, iespedeza, wild winter peas, vetch, and other legumes.

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Agriculturally approved surfactants may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

Do not use adjuvants containing penetrants such as petroleum based oils after grass emergence on newly seeded grasses.

# **NEWLY SEEDED AREAS**

DICAMBA DMA SALT may be applied either preplant or postemergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence applications may be made after seedling grasses exceed  $\nu$  the 3 leaf stage. Rates of DICAMBA DMA SALT greater than 1 pint per treated acre may severely injure newly seeded grasses.

Preplant applications: Injury to new seedings may occur if intervals between application and grass planting are less than 45 days per pint of DICAMBA DMA SALT per treated acre west of the Mississippi River or 20 days per pint east of the Mississippi River.

### **ESTABLISHED GRASS STANDS**

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species, bentgrass, carpetgrass, smooth brome, buffalograss or St. Augustine grass, may be injured when treated with DICAMBA DMA SALT at rates exceeding 1 pint per treated acre.

# WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will control many annual and biennial weeds and provide control or suppression of many perennial weeds. (Refer to GENERAL WEED LIST.)

# RATES AND TIMINGS

Application rates and timings of DICAMBA DMA SALT treatments are given below. Use the higher rate of the rate range when vegetation is either dense or tall, or when weeds are growing under stressed conditions such as drought or cool temperature.

	Broadcast Rate Per Treated Acre		
Weed Type* & Stage	Amount of formulated DICAMBA DMA SALT (pts)	Equivalent lbs a.i.	
Annuals Small, actively growing Established weed growth	1/4-1	1/8-1/2	

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Biennials**	· ·	
Rosette diameter		
Less than 3 inches	1/2-1 /	1/4-1/2
3 inches or greater	1-2 🗸	1/2-1
Bolting biennial	2-3 🗸	1-1 1/2
Perennials**		,
Suppression/Control	2-4	1-2

<sup>\*</sup>For best results, treat biennial weeds with DICAMBA DMA SALT when they are in the rosette stage of growth. Retreatments may be made as needed; however, do not exceed a total of 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre during a growing season.

\*\*biennial and perennial weeds will require follow-up (sequential) treatments for seedling control and escapes.

## TANK MIX TREATMENTS

To control grasses and additional broadleaf weeds, DICAMBA DMA SALT may be tank mixed with other herbicides registered for use in Conservation Reserve Programs such as 2,4-D, glyphosate (Roundup), paraquat (Gramoxone), metsulfuron (Ally) and others.

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates, and other restrictions.

# ASPARAGUS FOR USE ONLY IN THE STATES OF CALIFORNIA, OREGON AND WASHINGTON

Observe all precautions. Read and follow mixing and application instructions.

If spray contacts emerged spears, crooking (twisting) of some spears may result. If such crooking occurs, discard affected spears.

Do not harvest prior to 24 hours after treatment.

Do not use in the Coachella Valley of California.

Multiple applications may be made per growing season. Do not exceed a total of 1 pint of DICAMBA DMA SALT per treated acre per crop year.

# **RATES AND TIMINGS**

Apply DICAMBA DMA SALT to emerged and actively growing weeds in 40 to 60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the anext cutting.

Weeds	Rate Per Treated Acre	
Mustard, Black		
Pigweed, Redroot (Carelessweed)	1/2-1 pt	
Sowthistle, Annual	1/2-1 pt (1/4-1/2 lb a.i.)	
*Thistle, Canada		
Thistle, Russian		
*Bindweed, Field		
Chickweed, Common	1 pt	
Goosefoot, Nettleleaf	1 pt (1/2 lb a.i.)	
Radish, Wild	,	
Thistle, Milk		

DICAMBA DMA SALT may be applied in a tank mixture with either 2,4-D or Roundup Herbicide for improved control of noted (\*) weeds. Read and follow 2,4-D or Roundup Herbicide product labeling for precautionary statements, directions for use, application rates and timings, and other restrictions.

# TURF AND LAWNS FOR USE IN GENERAL FARMSTEAD (NON-CROPLAND) AND SOD FARMS

Observe all precautions. Read and follow mixing and application instructions.

To avoid injury to newly seeded grasses, application of DICAMBA DMA SALT should be delayed until after the second mowing. Furthermore, application rates in excess of 1 pint (1/2 lb a.i.) per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustine grass.

In areas where roots of sensitive plants extend, do not apply in excess of 1/4 pint (1/8 lb a.i.) of DICAMBA DMA SALT per treated acre on coarse textured (sandy-type) soils, or in excess of 1/2 pint (1/4 lb a.i.) per treated acre on fine textured (clay-type) soils. Do not make repeat applications in these areas for 30 days and until previous applications of DICAMBA DMA SALT have been activated in the soil by rain or irrigation.

# WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will give control of many annual, biennial, and noted (\*) perennial broadleat weds commonly found in turf DICAMBA DMA & SALT will also give growth suppression of many other listed perennial broadleaf weeds and woody brush and vine-species. (Refer to GENERAL WEED LIST.)

# MIXING AND APPLICATION

Apply 30 to 200 gallons of diluted spray per treated acre (3 qts to 4 1/4 gals per 1,000 sq ft), depending on density or height of weeds treated and on the type of equipment used.

# **RATES AND TIMINGS**

Use the higher level of listed rate ranges when treating dense vegetative growth.

	DICAMBA DMA SALT		
Weed Stage & Type	Pints per treated acre	Pounds a.i. per treated acre	Teaspoons per 1000 sq ft
Annual	1	/	
Small, actively growing	1/2-1 🗸	1/4-1/2	1-21/4
Established weed growth	1/2-1 /	1/4-1/2	1-21/4 21/4-31/4 V
Biennial,			
Rosette diameter			
Less than 3 inches	1/2-1	1/4-1/2	1-21/4
3 inches or more	1-2	1/4-1/2	21/4-41/2
Perennials, Woody			
Brush and Vines	1-2	1/2-1	21/4-41/2

For best performance, apply when weeds are emerged and actively growing.

Retreatments may be made as needed; do not exceed a total of 2 pints (1 lb a.i.) DICAMBA DMA SALT per treated acre during a growing season.

# TANK MIX TREATMENTS

Read and follow the label of each tank mix product, used for precautionary statements, directions for use, application rates and timings and other restrictions.

Tank mix treatments of DICAMBA DMA SALT may be made with 2,4-D, MCPA, MCPP, or bromoxynil for control of additional weeds listed on the tank mix product label.

Apply 1/5 to 1/2 pint (1/10 to 1/4 lb a.i.) of DICAMBA DMA SALT per treated acre with 1/2 to 1 1/2 lbs acid equivalent of 2,4-D, MCPA, MCPP, or with 3/8 to 1/2 lb a.i. of bromoxynil. Use the higher level of the listed rate ranges when treating established weeds. Repeat treatments may be made as needed; however, do not exceed 2 pints (1 lb a.i.) of DICAMBA DMA SALT per treated acre during the growing season.

# GRASS SEED CROPS GRASSES GROWN FOR SEED SUCH AS BERMUDAGRASS, BLUEGRASE, FESCUE AND RYEGRASS

Observe all precautions. Read and follow mixing and application instructions.

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Refer to the PASTURE, HAY, RANGELAND, AND GENERAL FARMSTEAD (NON-CROPLAND) section for possible grazing and feeding restrictions.

Do not use on bentgrass unless possible crop injury can be tolerated.  $\checkmark$ 

## WEEDS CONTROLLED

DICAMBA DMA SALT will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds plus additional weeds, it is recommended that DICAMBA DMA SALT be applied in a tank mix with other herbicides.

Alfalfa<sup>1</sup>

Bedstraw, Catchweed

Bindweed, Field

Buttercup, Corn.

Buttercup, Creeping

Buttercup, Western Field

Catchfly, Nightflowering

Chamomile, Corn

Chickweed, Common

Chickweed, Mouseear

Clover

Cockle, White

Dock, Broadleaf

Dock, Curly

<sup>1</sup>Top growth only.

Hemlock, Poison

Knapweed, Russian<sup>1</sup>

Knawel

Knotweed, Prostrate

Kochia

Ladysthumb

Lambsquarters, Common

Lettuce, Prickly

Mayweed (Dogfennel)

Ragwort, Tansy

Sorrel, Red (Sheep Sorrel)

Sowthistle, Annual

Starwort, Little

Thistle, Canada<sup>1</sup>

# **RATES AND TIMINGS**

Apply 1/2 to 1 pint of DICAMBA DMA SALT per treated acre on seedling grass after the crop reaches the 3 to 5 leaf stage. Apply up to 2 pints of DICAMBA DMA SALT on well-established perennial grass. Do not apply after the grass seed crop begins to joint. For best performance, make applications when weeds are in the 2 to 4 leaf stage and rosettes are less than 2 inchest across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

# TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, DICAMBA DMA SALT may be tank mixed with all broadleaf herbicides registered for use in Grass Seed Production. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

## **BROADCAST RATE PER TREATED ACRE**

Apply 1/2 to 2 pints DICAMBA DMA SALT with: //

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal	1-4 pts (.5-2.0 lbs a.i./A) <sup>1</sup>
MCPA amine	MCPA	4 lb/gal	1-2 pts (.5-1.0 lb a.i./A) <sup>1</sup>
Buctril	bromoxynil <sup>2</sup>	2 lb/gai 🗸	1-2 pts
Curtail	clopyralid + 2,4-D	2.38 lb/gal	13/4-4 pts
Karmex .	diuron <sup>2</sup>	80% DF	2-4 lbs
Stinger	clopyralid	3 lb/gal	1/4-1 pt

<sup>&</sup>lt;sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

# ANNUAL GRASS CONTROL

For suppression of annual grass weeds such as:

Brome, Downy (Cheatgrass)

Brome, Ripgut

Fescue, Rattail

Windgrass

Apply up to 4 pints of DICAMBA DMA SALT per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

PREPLANT DIRECTIONS (POST HARVEST/FALLOW/CROP STUBBLE/SET-A-SIDE) FOR BROADLEAF WEED CONTROL BEFORE WHEAT, CORN, SORGHUM, SOYBEANS

Observe all precautions. Read and follow mixing and application instructions.

#### WEEDS CONTROLLED

DICAMBA DMA SALT may be applied alone or in tank mix combinations with other herbicides  $\nu$  registered for this use.

DICAMBA DMA SALT can be applied either post harvest in the fall, spring or summer during the fallow period or to crop stubble/set-a-side acres. DICAMBA DMA SALT, when applied at the recommended rates, will control many annual broadleaf weeds. See the WEEDS

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<sup>&</sup>lt;sup>2</sup>Herbicides with the same common name and/or different formulations may be used. <sub>4</sub>

CONTROLLED section under small grains. In addition, DICAMBA DMA SALT Herbicide will control or suppress the following biennial and perennial broadleaf weeds:

Alfalfa<sup>1</sup> Knapweed, Diffuse Artichoke, Jerusalem Nightshade, Silver

Bindweed, Field Redvine

Bindweed, Hedge Smartweed, Swamp Blueweed, Texas Sowthistle, Perennial<sup>1</sup>

Bursage (Bur Ragweed, Povertyweed Spurge, Leafy

Lakeweed)<sup>1</sup> Thistle Bull

Dandelion, Common<sup>1</sup>

Dock, Curly<sup>1</sup>

Dogbane, Hemp

Thistle, Milk

Thistle, Musk

Dogbane, Hemp Thistle, Musk
Garlic, Wild<sup>2</sup> Thistle, Plumeless
Horsenettle, Carolina Thistle, Scotch

Knapweed, Spotted Trumpetcreeper (Buckvine)

<sup>1</sup>Perennials may be controlled using DICAMBA DMA SALT at rates lower than those recommended for other listed perennial weeds. (See RATES AND TIMINGS under this heading.)

<sup>2</sup>See the SPECIAL TANK MIX TREATMENTS section under this heading for specific control  $\nu$  programs for these weeds.

# RATES AND TIMING

Apply DICAMBA DMA SALT as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (post harvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer. Agriculturally approved spray additives, such as surfactants or oils, may be used to enhance spray coverage and the herbicide's penetration of weed foliage. See CROPPING RESTRICTIONS for recommended interval between application and planting to prevent crop injury.

For best performance, make application when annual weeds are less than 6 inches tall, when biennial weeds are in the rosette stage, and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke, occurs if application is made when the majority of weeds, such as field bindweed and hedge bindweed, are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for DICAMBA DMA SALT. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of DICAMBA DMA SALT, see the RATES AND TIMINGS section under the SMALL GRAINS heading for details.

### DICAMBA DMA SALT RATES PER TREATED ACRE

Weed Type	Amount of Product Per Acre
Annual	1/2-1 pt (8 to 16 fl oz)
Biennial	1-2 pts (16 to 32 fl oz)
Perennial	1-4 pts (16 to 64 fl oz)
Perennial suppression	1-2 pts (16 to 32 fl oz)
Noted* perennials	2-4 pts (32 to 64 fl oz)
Other perennials	4 pts (64 fl oz)

Retreatments may be made as needed; however, do not exceed a total of 4 pints of DICAMBA DMA SALT per treated acre during any given period.

#### TANK MIX TREATMENTS

DICAMBA DMA SALT may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

# DICAMBA DMA SALT BROADCAST RATE PER TREATED ACRE FOR ANNUAL WEED CONTROL

Apply 1/4 to 1 pint DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product
			Per Acre
Aatrex® 4L¹	atrazine	4 lb/gal —	0.5-6 pts
Aatrex® Nine-O®1	atrazine	90% DF 🗸	0.5-3 1/3 lb
Ally <sup>2</sup>	metsulfuron-methyl	75% DF ~	0.1 oz -
Amber <sup>2</sup>	triasulfuron	75% DF ✓	0.28-0.35 oz
Bladex1	cyanazine	90% DF 🛩	2.7-3.6 lb
Cyclone®	paraquat	2 lb/gal	1-2 pts
Fallow Master™	glyphosate + dicamba	1.6 lb/gal	22-44 fl oz
Finesse <sup>2</sup>	chlorsulfuron + metsulfuron-methyl	75% DF	0.2 oz
Gramoxone® Extra	paraquat	2.5 lb/gal ~	1.5 pts
Kerb®¹	pronamide	50-W	0.5-1 lb
Landmaster® BW	glyphosate + 2,4-D	2.4 lb/gal /	27-54 fl oz
Roundup or Roundup RT	glyphosate	3 lb/gal	8-48 fi cz
Sencor® DF1	metribuzin	75% DF	0.5-1 Jb
Sencor® 41	metribuzin	4 lb/gal 🗸	0.75- 1.5 pts
2,4-D	2,4-D	4 lb/gal	1-2 pts (0.5-1 ib ai/A)3c

<sup>1</sup>Tank mixes of DICAMBA DMA SALT with these products may be subject to special restrictions. See the product label of the tank mix partner for intended use rates, restrictions and other precautions.

<sup>2</sup>When tank mixing with sulfonylurea herbicides, refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth. Sulfonylurea-resistant weeds may not be controlled by tank mixes of LDICAMBA DMA SALT and a sulfonylurea. Refer to the DICAMBA DMA SALT tank mix section for alternative tank mixes.

3When using formulations other than 4 lb/gal, use pounds active/acre listed.

# DICAMBA'DMA SALT BROADCAST RATE PER TREATED ACRE FOR BIENNIAL AND PERENNIAL WEED CONTROL

Apply 1 to 4 pints of DICAMBA DMA SALT with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Curtail	clopyralid + 2,4-D /	2.38 lb/gal	2-4 pts
2,4-D	2,4-D	4 lb/gal	2-6 pts (1.0-3 lbs a.i./A) <sup>1</sup>
Landmaster BW	glyphosate + 2,4-D	2.4 lb/gal	54 fl oz
Roundup	glyphosate	3.0 lb/gal	1-5 qts V
Roundup RT	glyphosate	3.0 lb/gal 🖊	1-5 qts
Tordon™ 22K	picloram	2 lb/gal	1/2-1 pt

<sup>1</sup>When using formulations other than 4 lb/gal, use pounds active/acre listed.

#### SPECIAL TANK MIX TREATMENTS

For suppression of perennial weeds, apply 1/2-1 pint of DICAMBA DMA SALT with 8-16 fluid ounces of Roundup Herbicide or Roundup RT per treated acre.

For wild garlic control, apply 1 pint DICAMBA DMA SALT with 3 pints of 2,4-D LV ester (4 lb/gal) per treated acre. Apply when wild garlic is 4 to 8 inches tall.

For Canada thistle control, use DICAMBA DMA SALT, DICAMBA DMA SALT plus Curtail, or DICAMBA DMA SALT plus Roundup Herbicide or Roundup RT tank mix treatments.

Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat when they are actively growing. Use 1 pint DICAMBA DMA SALT with 1/2-1 lb Kerb 50-W. Fall seeded wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December, prior to soil freeze up.

During fallow periods, apply DICAMBA DMA SALT plus Landmaster BW or Dicamba plus Glyphosate Herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 1/8-1/4 pint of DICAMBA DMA SALT plus 22-54 fluid ounces of Landmaster BW or Dicamba plus Glyphosate Herbicide for annual weed control or 1/4-1/2 pint DICAMBA DMA SALT plus 22-54 fluid ounces of Landmaster BW or Dicamba plus Glyphosate Herbicide for perennial weed suppression.

### **CROPPING RESTRICTIONS**

The following recommendations are based on DICAMBA DMA SALT use rates up to 4 pints per treated acre.

Corn, sorghum, and soybeans may be planted in the spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and first killing frost, treated areas should be cultivated to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

Soybean injury may occur if the interval between application and planting is less than specified. In areas with greater than 30 inches of rainfall, delay planting for 30 days per pint of DICAMBA DMA SALT per treated acre. In areas with less than 30 inches of rainfall, delay planting for 45  $\angle$  days per pint of DICAMBA DMA SALT per treated acre. Exclude days when ground is frozen.

Wheat may be planted in the fall or spring following applications. Also, spot application may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

East of the Mississippi River, the interval is 20 days per pint of DICAMBA DMA SALT per treated acre or 1.25 days per 1 ounce. Moisture is essential for DICAMBA DMA SALT, degradation. Exclude days when ground is frozen.

West of the Mississippi River, the interval is 45 days per pint of DICAMBA DMA SALT per treated acre or 3 days per ounce. Moisture is essential for DICAMBA DMA SALT degradation. Exclude days when ground is frozen.

Following a normal harvest of barley, oats, or wheat, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.

1/0

# CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND (SPOT APPLICATION ONLY)

FOR USE ONLY IN THE STATES OF IDAHO, MONTANA, NEVADA, OREGON, UTAH, AND WASHINGTON

Observe all precautions. Read and follow mixing and application instructions.

Do not treat subirrigated cropland or areas where the soil remains saturated with water, throughout the year.

Make only one application of DICAMBA DMA SALT per year.

### WEEDS CONTROLLED

DICAMBA DMA SALT, when applied at recommended rates, will control many broadleaf weeds including:

Bindweed, Field Dock, Broadleaf (Bitterdock) Dock, Curly Knapweed, Black

Knapweed, Russian Ragwort, Tansy Spurge, Leafy Thistle, Canada

#### RATES AND TIMINGS

DICAMBA DMA SALT may be applied at any time following a crop harvest to stubble, fallow or other cropland. Application should be made when weeds are actively growing and prior to a killing frost.

Apply 2 quarts (2 lbs a.i.) of DICAMBA DMA SALT per treated acre. Application may be made > up to one month prior to the planting of wheat.

NOTE: Do not use unless injury to wheat or rotated barley will be acceptable.  $\triangleright$ 

Barley, oats, corn, sorghum (milo), annual or perennial grass crops may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. Do not plant broadleaf crops such as alfalfa, beans, peas, potatoes, or sugar beets into treated areas until two years after application.

In most cases, treatments will not kill perennial weed seedlings which genericate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program f for seedling control or other cultural practices should be instituted.

left off wiper application use.

## CONDITION OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith. In no case shall the seller be liable for consequential, special or indirect damages such as loss of profits or values resulting from the use or handling of this product.

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Alice Walker Consulting 811 Country Club Drive Senatobia, MS 38668 Phone: 601-562-5995

Fax: 601-562-7404

## **FACSIMILE TRANSMITTAL SHEET**

To:

Susan Stanton

Fr: Alice Walker

Date: September 1, 1998

Re:

Revised Certification Re. Citation of Data Forms

### Dear Susan:

Per our telecon, attached are revised certification forms for Dicamba DMA Salt (EPA File Symbol 42750-UN) and Dicamba Sodium Salt (EFA File Symbol 42750-UG).

Thanks enormously for reviewing these applications so punctually.

Alice Walker

aw

Attachments (2 pp.)

Glen O'Brien

Form Approved OMB No. 2070-0060



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of infor and 0.25 hours per response for reregistration and special review activities, including time comments regarding burden estimate or any other aspect of this collection of information information Management Division (2.137), U.S. Environmental Protection Agency, 401 M Do not send the completed form to this address.	for reading the instructions and completing the necessary forms. Sent including suggestions for reducing the burden to: Director, OPPE				
Certification with Respect to 0	Citation of Data				
Applicant's/Registrant's Name, Address, and Telephone Number	EPA Registration Number/File Symbol				
Albaugh, Inc., 121 NE 18th St., Ankeny, IA	50021 42750-UN				
Active Ingredient(s) and/or representative test compound(s)  Dicamba DMA salt	Date 9-1-98				
General Use Pattern(s) (list: all those claimed for this product using 40 CFR Part 158)	9-1-98 Product Name				
Pesticides use groups 1, 2, and 10	Dicamba DMA Salt				
NOTE: If your product is a 100% repackaging of another purchased EPA-registered p submit this form. You must submit the Formulator's Exemption Statement (EPA Form &	roduct labeled for all the same uses on your label, you do not need to				
I am responding to a Data Cell-In Notice, and have included with this form a list be used for this purpose).	of companies sent offers of compensation (the Data Matrix form should				
SECTION I: METHOD OF DATA SUPPOR	「(Check one method only)				
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).  I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).					
SECTION II: GENERAL OFF	ER TO PAY				
[Required if using the cite-all method or when using the cite-all option under the selective     X   I hereby offer and agree to pay compensation, to other persons, with regard to the	·				
SECTION III: CERTIFIC	ATION				
I certify that this application for registration, this form for recgistration, or this application for registration, the form for recgistration, or the Data-Call-In response. In an indicated in Section I, this application is supported by all data in the Agency's files that ( substantially similar product, or one or more of the ingredients in this product; and (!) is requirements in effect on the date of approval of this application if the application sought uses.	diction, if the cite-all option or cite-all option under the selective method is t) concern the properties or effects of this product or an identical or a type of data that would be required to be submitted under the data the initial registration of a product of identical or similar composition and				
I certify that for each exclusive use study cited in support of this registration of the written permission of the original data submitter to cite that study.	r reregistration, that I am the original data submitter or that I have obtain				
I certify that for each study cited in support of this registration or renegistration submitter; (b) I have obtained the permission of the original data submitter to use the study; compensation have expired for the study; (d) the study is in the public literature; or (e) I offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(1) amount and terms of compensation; if any, to be paid for the use of the study.	idy in support of this application; (c) all periods of eligibility for have notified in writing the company that submitted the study and have				
I certify that in all instances where an offer of compensation is required, copie accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be evidence to the Agency upon request, I uncerstand that the Agency may inklate action to FIFRA.	submitted to the Agency upon request. Should I fail to produce such				
I certify that the statements I have made on this form and all attachment knowingly false or misteading statement may be punishable by fine or imprisonm	s to it are true, accurate, and complete. I scknowledge that any ent or both under applicable law.				
	Typed or Printed Name and Tibe Alice Walker, Ph.D. Reg. Consultant				
PA Form 8570.34 (9.97) Electronic and Cares versions available. Submit each Danes and	The second secon				

DP BARCODE: D244195

CASE: 063674 SUBMISSION: S539048 DATA PACKAGE RECORD

BEAN SHEET

DATE: 03/16/98 Page 1 of 1

\* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION

ACTION: 165 NEW PROD-OC-MINOR CHG

RANKING : 0 POINTS ()

CHEMICALS: 029802 Dicamba, dimethylamine salt

48.2000%

ID#: 042750-UN dicamba dma salt COMPANY: 042750 ALBAUGH INC

PRODUCT MANAGER: 23

ROOM:

PM TEAM REVIEWER: SUSAN STANTON

703-305-5218 ROOM: CM2 237

RECEIVED DATE: 02/25/98 DUE OUT DATE: 09/03/98

\* \* \* DATA PACKAGE INFORMATION \* \* \*

EXPEDITE: N DP BARCODE: 244195 DATE SENT: 03/16/98 DATE RET.:

HEMICAL: 029802 Dicamba, dimethylamine salt □P TYPE: 001 Submission Related Data Package

> CSF: Y LABEL: Y

ASSIGNED TO DATE IN DATE OUT ADMIN DUE DATE: 08/13/98

DIV : RD NEGOT DATE: / / BRAN: TRB PROJ DATE:

SECT: CHEM REVR : 11. Sodall 8/26/98

CONTR:

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Attention: Chemistry Team

Please review the product chemistry data (MRID #445027-01 and -02), CSF and draft label for the new product, Dicamba DMA Salt (File Symbol 42750-UN), and advise us whether they are acceptable.

Thanks,

Susan Stanton

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \*

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL Y Y 244196 03/16/98 08/13/98 TRB/TOX

SUBJECT: EP [X] MP [ ] PRODUCT CHEMISTRY REVIEW --ACTION:165

DP BARCODE No.: D244195 REG./File Symbol No.42750-UN

PRODUCT NAME: Dicamba DMA Salt

COMPANY: Albaugh, Inc.

TO:

PM 23/ Susan Stanton

Branch: Herbicide

Registration Division (7505C)

FROM:

Harold Podall, Chemist 21. Podall

TRB/RD(7505C) .

#### INTRODUCTION\DESCRIPTION OF BUBMISSION:

Review product chemistry MRID 445027-01 and -02, CSF and product Label.

#### **BUMMARY OF FINDINGS:**

4. The product chemistry information provided in the MRIDs is sufficient and appears to be technically reasonable.

### CONCLUSIONS/RECOMMENDATIONS:

The product chemistry information, CSF and product Label are in accordance with the corresponding regulatory requirements and are technically reasonable and acceptable.

18x

# EP [X] MP [ ] PRODUCT CHEMISTRY REVIEW

1.	Registration [X] 2. Reregistration [ ], Rereg Case No
3.	Pesticide Type: a. Fungicide [] b. Herbicide [X] c. Insecticide [] d. Rodenticide [] e. Antimicrobial [] f. Plant Growth Regulator [] g. Others
4.	Uses: a. Food [X] b. Non food use []
5.	Type of Submission: New [X] Resubmission [] Amendment [] "ME-TOO" [] Alternate Formulation [] Repack [] Experimental Use Permit [] Other (Specify)
6.	If "Me-TOO" Registration, this product is [] is not [] similar or substantially similar to EPA's Reg. No.:,
	If not, comment in Confidential Appendix A on the differences between the registered and the new source where significant.
7.	Information to be reviewed:
	a. CSF [X]: Basic [X] Alternate [] b. Label [X] c. Product Chemistry [X]
CONF	IDENTIAL STATEMENT OF FORMULA, DATED Feb./19 /1998 :
8.	Type of formulation and the sources of active ingredients:
	a. Non-integrated formulation system
	<pre>b. Are all technical grade active ingredients used     registered?</pre>
	c. Integrated formulation system[X]
9.	Basic Properties:
	a. Physical state at ambient temperature: Liquid
	<pre>b. Density (or bulk density for solids)/temperature:</pre>

c. pH of product: 8.0-9.5
---------------------------

- d. Flash point (or flame extension for aerosols): N.A.
- 10. Composition: The nominal concentrations (NC) of the active ingredients and the upper and lower certified limits (UCL & LCL) are as follows:

-	<u> </u>	<u>by weigh</u>	<u>nt                                    </u>
Active ingredient(s)	NC	UCL	LCL
dicamba dimethylamine salt **	48.2	49.6	46.8
** dicamba equivalent	40	41.2	38.8

11. The calculated NCs, based on the pure active ingredients (PAI), are identical to those on the label:

• yes [X] • no	Γ	1
----------------	---	---

12. The certified limits are within the standard limits as per 40CFR§158.175 or are adequately explained if different:

•	yes	[X ]	] • no [	
	1		] 110	

- 13. Clearance of intentionally added ingredients in the formulation for the intended use:
  - a. Formulation intended for food use under 40CFR§180.1001:
    - yes [X] no [] Some are cleared, others are not [] not intended for food use
      - Cleared under list: c [] d [] e []
      - Are there any limitations for use as an inert under 40CFR§180.1001?
      - yes [ ] no [ ], If yes, specify:
  - b. Formulation intended for non-food use:
    - yes [ ] no [ ] Some are cleared, others are not [ ]
  - c. Clearance by the FDA of certain formulations under21CFR §170 to 199.
    - yes [ ] no [ ] Some are cleared, others are not [ ]

If yes, the entire formulation is cleared under 21CFR§\_

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14.	For products produced by an integrated formulation system:    All impurities of toxicological significance have an UCL:
	• yes [] • no [] • not applicable [X]
	<ul> <li>All other impurities ≥ 0.1% associated with the active ingredient in the product are reported at their nominal concentrations:</li> </ul>
	• yes [] • no [] • not applicable [X]
PROD	UCT LABEL, EPA RECEIVED 2/25/1998:
15.	The active ingredients statement (chemical identities, nominal concentrations) is consistent with the CSF $\cdot$ yes [X] $\cdot$ no [ ]
16.	The formulation contains one of the following:  • 10% or more of a petroleum distillate: • yes [] •no [X]  • 1% or more of methyl alcohol: • yes [] •no [X]  • sodium nitrite at any level: • yes [] •no [X]  • a toxic List 1 inert at any level: • yes [] •no [X]  • arsenic in any form: • yes [] •no [X]
17.	If yes to any of the above, does the inert ingredients statement contains a footnote indicating this?
	• yes [] • no [] • not applicable [X]
18.	The appropriate physical and chemical hazards statement regarding flammability or explosive characteristics of the product are given on the label:
	• yes [ ] • no [ ] • not applicable [X]
19.	The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses:
-	• yes [ ] • no [ ]

## PRODUCT CHEMISTRY DATA (SERIES 61 and 62)

20. Chemical IDs/Manufacture/ Analytical Information		Data Required Fulfilled	MRID No.
61-1/830-1550	Chemical Identity	FULFILLED	445027-01



61-2/830-1600/ Materials/ Man formulation Pr	ufacturing or /	fulfilled	n	II
61-3/830-1670 Impurities	Discussion of	fulfilled	11	*1
62-1/830-1700	Preliminary Analysis	N.A.		
62-2/830-1750	Certified Limits	Fulfilled	in C	SF
62-3/830-1800 Analytical Met	Enforcement hod	N.A		

## PRODUCT CHEMISTRY DATA (SERIES 63)

21. Physical/Chemical Properties	Data Required Fulfilled	Value or Qualitative Description	MRID No.
63-3/830-6302 Physical State	fulfilled	liquid	445027-02
63-7/-7300 Density/Bulk Density	71 11	Sp.G.25/20deg.C= 1.176	17 71
63-12/-7000 pH of Product	ji ti	8.0-9.5	11 11
63-14/-6314 Oxidation/Red.	11 17	not an oxid. or reducing agent	1) 11
63-15a Flammability-Flash Point	N.A.		
63-15b Flame Extension	N.A.		
63-16 Explodability	N.A.		
63-17 Storage Stability	data N.R.		
63-18 Viscosity	fulfilled	4.14 cs at 25 C	11 11
63-19 Miscibility (With Hydrocarbon solvents)	N.A.	·	
63-20 Corrosion Characteristics	data N.R.		



63-21 Dielectric Breakdown Voltage	N.A.		
Explanations: Y = The Requirements Were NA = Not Applicable; G = Data Gap; U = Waived.		I = The Requirements ding; I = Incomplete	Were Not Fulfilled; or In Progress; W

						DATE OUT:	<del></del>	
EP_	_[_	1	мр	Ţ	1	PRODUCT CHEMISTRY REVIEW		
			No.:_ NAME:			REG./File Symbol No.:	· · · · · ·	
			MAME.	_		Company:		

of Active Ingredient(s)

H7505W:RD:RSB:PCRS:CS-1:650:S.Malak:xx/xx/95:703-308-8392:(Reg No).

13/V

DP BARCODE: D244196

CASE: 063674 '

DATA PACKAGE RECORD

SUBMISSION: S539048 BEAN SHEET

DATE: 04/01/9 Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION . ACTION: 165 NEW PROD-OC-MINOR CHG

RANKING : 0 POINTS ()

CHEMICALS: 029802 Dicamba, dimethylamine salt

48.2000

ID#: 042750-UN dicamba dma salt COMPANY: 042750 ALBAUGH INC

PRODUCT MANAGER: 23

ROOM:

PM TEAM REVIEWER: SUSAN STANTON 703-305-5218 ROOM: CM2 237

RECEIVED DATE: 02/25/98 DUE OUT DATE: 09/03/98

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 244196 EXPEDITE: N DATE SENT: 03/16/98 DATE RET.: / /

CHEMICAL: 029802 Dicamba, dimethylamine salt DP TYPE: 001 Submission Related Data Package

CSF: Y LABEL: Y

ASSIGNED TO DATE IN DATE OUT ADMIN DUE DATE: 08/13/98

DIV : RD 03/16/98 / / NEGOT DATE: / / BRAN: TRB 03/18/98 / / PROJ DATE: / / SECT: TOX 03/18/98 / /

SECT: TOX 03/18/98 / /
REVR: / / / //
CONTR: OAKRIDGE 04/01/98 6//1/8/

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Attention: Acute Toxicology Team

Please review the 6-pack of acutes (MRID #445027-03 through -08) and draft label for the new product, Dicamba DMA Salt (File Symbol: 42750-UN), and advise us whether they are acceptable. A copy of the CSF is enclosed for your information.

Thanks, Susan Stanton

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEI 244195 TRB/CHEM 03/16/98 08/13/98 Y Y Y

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

23/JUL /1998

## **MEMORANDUM**

Subject:

EPA Reg. No: 42750-UN

DP Barcodes: D244196

Case No:

063674

· From:

Masih Hashim, Toxicologist HH

Technical Review Branch

Registration Division (7505C)

To:

Susan Stanton, PM Team 23

Herbicide Branch

Registration Division (7505C)

Applicant:

Albaugh Incorporated

121 NE 18th Street

Ankeny, IA 50021

## FORMULATION FROM LABEL:

Active Ingredient(s):		<u>% by wt.</u>
029802	Dicamba, dimethalamine salt	48.2
Inert Ing Total:	redient(s	<u>51.8</u> 100.0

<u>BACKGROUND</u>: Albaugh Inc. has submitted a complete set of acute toxicity studies in support of registration for Dicamba DMA Salt (# 42750-UN). These studies were conducted at the Stillmeadow Laboratories, Sugar Land, Texas, with the MRID numbers 445027-03 through 08. An Agency contractor summarized all these studies, then they were revised and evaluated by Technical Review Branch.

<u>RECOMMENDATIONS</u>: Each of the six studies is acceptable in accordance with the Sub-Division F guidelines. The toxicology profile for the File Symbol# 42750-UN is as follows:

acute oral toxicity	HI	acceptable
acute dermal toxicity	IV	acceptable
acute inhalation toxici	ty IV	acceptable
primary eye irritation	II	acceptable
primary skin irritation	. IV	acceptable
dermal sensitization	not a skin sensitizer	acceptable

#### LABELING:

ID #: 042750-00040 Dicamba dma salt

SIGNAL WORD: WARNING

#### PRECAUTIONARY STATEMENTS:

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear goggles or face shield: Wash hands before eating, drinking, shewing gum, using tobacco or using the toilet. Remove contaminated elothing and by WPS wash clothing before reuse.

## STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

Probable mucosal damage may contraindicate the use of gastric lavage.

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#### DATA EVALUATION REPORT

#### DICAMBA DMA SALT

STUDY TYPES:

ACUTE ORAL TOXICITY - RAT (81-1)

ACUTE DERMAL TOXICITY - RABBIT (81-2)
ACUTE INHALATION TOXICITY - RAT (81-3)
PRIMARY EYE IRRITATION - RABBIT (81-4)
PRIMARY DERMAL IRRITATION - RABBIT (81-5)
DERMAL SENSITIZATION - GUINEA PIG (81-6)

SUMMARY:

ACUTE TOXICITY ONE-LINERS (81-1 through 81-6)

### Prepared for

Registration Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Arlington, VA 22202

## Prepared by

Chemical Hazard Evaluation Group Toxicology and Risk Analysis Section Life Sciences Division Oak Ridge National Laboratory Oak Ridge, TN 37831

Primary Reviewer:

Susan Chang, M.S.

Signature:

Date:

Date:

Secondary Reviewers:

H. Tim Borges, M.T.(A.S.C.P.), Ph.D., D.A.B.T.

Signature:

- 111 60

Robert H. Ross, M.S., Group Leader

Signature:

Date:

Quality Assurance:

LeeAnn Wilson, M.A.

Signature:

Date:

This review may have been altered subsequent to the contractor's signatures above.

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Disclaimer

## DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§81-1, 870.1100)

Product Manager: 23

Reviewer: M Hashim

MRID No.: 445027-03

Study Completion Date: February 6, 1998

Study No.: 3861-97

Testing Facility: Stillmeadow, Inc.

Author: Kuhn, J.O.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Species: Rats; Albino, HSD:SD

Age: young adult

Weight (fasted): Males: 176-307 g; Females: 153-215 g

Source: Harlan Sprague Dawley, Inc., Indianapolis, IN

#### Conclusion:

1. LD<sub>50</sub> (mg/kg):

Males:

= 1918 mg/kg (95% C.L. 1565-2350 mg/kg)

Females:

= 2087 mg/kg (95% C.L. 1693-2573 mg/kg)

Combined:

= 2000 mg/kg (95% C.L. 1715-2331 mg/kg)

2. The estimated LD<sub>so</sub> is 1918 mg/kg

3. Tox. Category: III

Classification: Acceptable

### Procedure (Deviations from §81-1): None

#### Results:

Dosage (mg/l/g)	Numi	ber of Deaths/Number	l'ested
Dosage (mg/kg)	Males	Females	Combined
1200	0/5	0/5	0/10
2000	3/5	2/5	5/10
5050	5/5	5/5	10/10

Observations: All deaths occurred within 4 hours of dosing with the exception of one high-dose female that died on day 3. The males and females in the low dose group showed loss of limb coordination, ataxia, hyperreflex, clenched forepaws, and/or diarrhea within 4 hours of treatment. Piloerection and decreased activity were noted on day 1 among the low dose animals but were not observed by day 2. Ptosis, labored breathing, splayed hind legs, decreased activity, gasping, loss of hindlimb coordination, decreased defecation, diarrhea, hunched posture, salivation, and/or red nasal discharge were noticed



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among the mid-dose animals with recovery by day 1. Prior to death, the high-dose males and four of the high-dose females showed sensitivity to touch and sound, decreased activity, and piloerection. The other high-dose female had a brown ocular discharge, ataxia, decreased defectation, polyuria, and labored breathing prior to death. All surviving animals had normal body weight gains.

Gross Necropsy: Dark red lungs and stomachs with gas and/or clear/light yellow/green slurry liquids were found among the mid-dose rats that died during the study. In addition to the above findings, the high-dose rats had gas or yellow gel in intestines, and/or empty large intestine. One high-dose female had liver edges and spleen dark. One mid-dose male had withdrawn testes. No observable abnormalities were found among the surviving rats.



## DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (§81-2, 870.1200)

**Product Manager: 23** 

Reviewer: M Hashim

MRID No.: 445027-04

Study Completion Date: January 28, 1998

Study No.: 3862-97

Testing Facility: Stillmeadow, Inc.

Author: Kuhn, J.O.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Species: Rabbits; Albino, New Zealand White

Age: Assumed to be young adult

Weight: Males: 2.00-2.55 kg; Females: 2.00-2.43 kg

Source: Ray Nichols Rabbitry, Lumberton, TX

### Dermal LD<sub>50</sub> Testing:

#### Conclusion:

1. LD<sub>so</sub> (mg/kg):

Males: > 5050 mg/kg
Females: > 5050 mg/kg
Combined: > 5050 mg/kg
The estimated LD<sub>50</sub>is > 5050 mg/kg

Tox. Category: IV

Classification: Acceptable

Procedure (Deviations from §81-2): None

#### Results:

D(!!)	Numb	er of Deaths/Number	Tested
Dosage (mg/kg)	Males	Females	Combined
5050	0/5	0/5	0/10

**Observations:** No animals died during the study. One male had soft feces and recovered by 2 hours. All animals had normal body weight gains. Very slight erythema was noted on day 1.

Gross Necropsy: No observable abnormalities were found.

12/6

## DATA REVIEW FOR ACUTE INHALATION TOXICITY TESTING (§81-3, 870.1300)

Product Manager: 23

Reviewer: M Hashim

MRID No.: 445027-05

Study Completion Date: December 29, 1997

Study No.: 3863-97

Testing Facility: Stillmeadow, Inc.

Author: Bennick, J.E.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Species: Rats; Albino, HSD:Sprague-Dawley

Age: Assumed to be young adult

Weight: Males: 241-259 q; Females: 170-193 q

Source: Harlan Sprague Dawley, Inc., Indianapolis, IN

#### Conclusion:

1. LC<sub>50</sub> (mg/L):

Males:

> 2.53 mg/L

Females:

> 2.53 mg/L

Combined:

> 2.53 mg/L

2. The estimated  $LC_{so}$  is > 2.53 mg/L

Tox. Category; IV Classification: Acceptable

#### Procedure (Deviations from §81-3): None

Exposure Concentration	Number of	Deaths/Numbe	r Tested
mg/L (Analytically Determined)	Males	Females	Combined
2.53	0/5	0/5	0/10

Clinical Observations: No animals died during the study. Decreased activity and piloerection were found in all animals. The animals recovered by day 1. All animals had normal body weight gains with the exception of one female that lost weight during the first week.

Necropsy Findings: No observable abnormalities related to test material were found. One male exhibited a small dark mass adjacent to the left testis and dark red tissue in the same area.

Chamber Atmosphere						
Analytical conc. MMAD GSD						
2.53 mg/L	1.4 µm	4.3				

ND no data

Other Information: Approximately 60% of particles had an aerodynamic diameter 3.3-4.7  $\mu$ m.



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Chamber Envi	ronment <sup>a</sup>
Chamber Volume	500 L
Airflow	133 LPM
Temperature	72 F
Relative Humidity	58%

<sup>&</sup>lt;sup>a</sup> Nose only



#### C<sub>7</sub>

## DATA REVIEW FOR PRIMARY EYE IRRITATION TESTING (§81-4, 870.2400)

Product Manager: 23

Reviewer: M Hashim

MRID No.: 445027-06

Study Completion Date: January 20, 1998

Study No.: 3864-97

Testing Facility: Stillmeadow, Inc.

Author: Kuhn, J.O.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Dosage: 0.1 mL

Species: Rabbits; Albino, New Zealand White

Age: Young adult

Weight: Males: 1.90-2.10 kg; Females: 1.90-2.13 kg

Source: Ray Nichols Rabbitry, Lumberton, TX

#### Conclusion:

Toxicity Category: Il (Severe irritant).

2. Classification: Acceptable

### Procedure (Deviations from §81-4): None

			Nur	nber "	positiv	e"/nur	nber	tested	ed					
Observations		Но	urs				D	ays						
	1	24	48	72	4	7	10	14	17	21				
	Unwashed eyes													
Corneal Opacity	0/6	3/6	3/6	1/6	0/6	0/6	0/6	0/6	0/6	0/6				
Iritis	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6				
Conjunctivae:														
Redness	5/6	5/6	3/6	1/6	1/6	1/6	1/6	1/6	1/6	0/6				
Chemosis	5/6	3/6	2/6	1/6	1/6	1/6	0/6	1/6	1/6	0/6				
Discharge	5/6	3/6	2/6	1/6	1/6	1/6	1/6	1/6	1/6	1/6				

**Summary:** Corneal opacity was found on 3/6, 3/6, and 1/6 rabbits at 24, 48, and 72 hours, respectively. One rabbit had no "positive" irritation. Conjunctival redness and chemosis were seen on 5/6 rabbits at 1 hour that persisted through 17 days on one rabbit. Conjunctival discharge was seen on 5/6 rabbits at 1 hour that persisted through 21 days on one rabbit. Two rabbits exhibited apparent pain (squealing) at time of treatment.



## DATA REVIEW FOR PRIMARY DERMAL IRRITATION TESTING (§81-5, 870.2500)

Product Manager: 23

Reviewer: M Hashim

MRID No.: 445027-07

Study Completion Date: December 30, 1997

Study No.: 3865-97

Testing Facility: Stillmeadow, Inc.

Author: Kuhn, J.O.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Dosage: 0.5 mL

Species: Rabbits; Albino, New Zealand White

Age: Young adult

Weight: Males: 2.10-2.43 kg; Females: 2.18-2.25 kg

Source: Ray Nichols Rabbitry, Lumberton, TX

#### Conclusion:

1. Toxicity Category: IV (Slight irritant)

2. Classification: Acceptable

#### Procedure (Deviations from §81-5): None

**Results:** PDIS = 0.3 (Slight irritant). One hour after patch removal, very slight erythema and well defined erythema were present on 3/6 and 1/6 rabbits, respectively. At 24 hours, 1/6 rabbits had very slight erythema. All rabbits cleared of irritation by 48 hours.

Special Comments: None

 $a_{y_{f}}$ 

## DATA REVIEW FOR DERMAL SENSITIZATION TESTING (§81-6, 870.2600)

Product Manager: 23 Reviewer: M Hashim

MRID No.: 445027-08 Study Completion Date: January 19, 1998

**Study No.**: 3866-97

Testing Facility: Stillmeadow, Inc.

Author: Kuhn, J.O.

Quality Assurance (40 CFR §160.12): Included

Test Material: Dicamba DMA Salt [40.0% Dicamba (3,6-dichloro-o-anisic acid)]; Lot A001;

brown liquid

Positive Control Material: 1-Chloro-2,4-dinitrobenzene (DNCB)

- **Species:** Guinea pigs; Albino, Hartley **Age:** Assumed to be young adult

Weight: Males: 355-426 g; Females: 340-397 g Source: Charles River Laboratories, Wilmington, MA

Method: Buehler

#### Conclusion:

1. There is no indication that this product is a dermal sensitizer.

2. Classification: Acceptable

## Procedure (Deviations from §81-6): None

**Procedure**: For the induction phase, 0.4 mL of the undiluted test material was applied under occlusion (exposure period not specified) once each week for three weeks. Guinea pigs were left untreated for two weeks before challenge. The animals were challenged with 0.4 mL of the undiluted test material under occlusion at naive sites in a manner identical to the induction treatment. A naive control group was treated with 0.4 mL of the undiluted test material at challenge only. Reactions were scored 24 and 48 hours post exposure.

**Results:** No irritation was noted on any animals after induction or challenge. The laboratory test system was periodically validated by using DNCB as a contact sensitizer. The Appendix of the study report contained the results of the positive control DNCB test, which was done within six months of this current study. The results were appropriate.



## **ACUTE TOX ONE-LINERS**

1. DP BARCODE: D244196

2. PC CODE: 029802

3. CURRENT DATE: July 23, 1998

4. TEST MATERIAL: Dicamba DMA Salt; Lot A001; brown liquid

Dicamba (3,6-dichloro-o-anisic acid) 40%

Study/Species/Lab Study #/Date	MRID	Results	Tox. Cat.	Core Grade
Acute oral toxicity rat/Stillmeadow, Inc., 3861-97/2-6-98	445027-03	LD <sub>so</sub> = 1918 mg/kg (males) 2087 mg/kg (females), 2000 mg/kg (combined)	111	А
Acute dermal toxicity rabbit/Stillmeadow, Inc., 3862-97/1-28-98	445027-04	LD <sub>so</sub> > 5050 mg/kg (males, females, combined)	IV	Α
Acute inhalation toxicity rat/Stiffmeadow, Inc., 3863-97/12-29-97	445027-05	LC <sub>50</sub> > 2.53 mg/L (males, females, combined)	IV	A
Primary eye irritation rabbit/Stillmeadow, Inc., 3864-97/1- 20-98	445027-06	Severe irritant; corneal opacity on 3/6, 3/6, and 1/6 rabbits at 24, 48, and 72 hours, respectively; one rabbit had no "positive" irritation; conjunctival redness and chemosis on 5/6 rabbits at 1 hour and persisted through 17 days on one rabbit; conjunctival discharge on 5/6 rabbits at 1 hour and persisted through 21 days on one rabbit.	II	A .
Primary dermal irritation rabbit/Stillmeadow, Inc., 3865-97/12- 30-97	445027-07	Slight irritant; very slight erythema on 3/6 rabbits and well defined erythema on 1/6 rabbits at 1 hour; very slight erythema on 1/6 rabbits at 24 hours; all cleared of irritation by 48 hours.		A
Dermal sensitization guinea pig/Stillmeadow, Inc., 3866- 97/1-19-98	445027-08	Not a sensitizer		A

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, V = Self Validated



#### **CERTIFIED MAIL**

see revised certification with respect to citation of data dated 9/1/98-changed to ate-all method of support.

I. Starton 9/1/98

March 13, 1998

Document Processing Desk Office of Pesticide Programs U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460

Re:

Dicamba DMA Salt (EPA File Symbol 42750-UN)

Our Application Submitted February 19, 1998

Attn: Joanne Miller

In accordance with a telecon with Susan Stanton today, I am enclosing a "Certification with Respect to Citation of Data" form and a data matrix for subject application.

Since we have chosen the selective method of data support, we are providing you a copy of the report "Studies Used in Support of Albaugh, Inc. Dicamba [Acid] Technical Product Registration." We believe that the generic data requirements covered in this report will satisfy the generic data requirements for Dicamba DMA Salt. We cite the Dicamba Registration Standard which states that "the salts and free acid are toxicologically equivalent . . . because the salt hydrolyzes to the free acid in an aqueous environment."

I know there will be more questions as you proceed with a review of Albaugh's application and the studies selected in its support. If there is anything that we can do to make your task any easier, please do not hesitate to call on us.

Sincerely,

Alice Walker, Ph.D.

Regulatory Consultant

... Walke

/s

cc: Glen O'Brien

# **\$EPA**

# United States Environmental Protection Agency Washington, DC 20460

## ication with Respect to Citation of Data

Form Approved
OMB No. 2070-0060
Approval Expires 11-30-93

Certification with	Respect to C	itation of Data		Approvat Exhines 17-30-23			
Applicants Nems and Address		EPA File Symbol/Regist 42750-UN	ration Number				
Albaugh, Inc. 121 NE 18th Street		Product Name	<del></del>				
Ankeny, Towa 50021		Dicamba DMA	Salt				
······································		Data of Application February 19, 1998					
NOTE: If your product is a 10 is labeled for the same uses, you Exemption Statement (EPA Form	do not need to submi	nother EPA-registered t this form. You must	product that yo submit the For	ou purchase, and mulator's			
<ol> <li>This application is supported to options are indicated, this approperties or effects of this profession of data that would be required product of identical or similar the date of apropval of this appertain to your application.)</li> </ol>	lication is supported to roduct that is identica I to be submitted if the composition and inte	oy all data in the Agen I or substantially simila is application sought to nded uses under the da	cy's files that co or, and that is o he initial registr ata requirement	ncern the ne of the types ation of a s in effect on			
<ol><li>I certify that, for each study ci study,</li></ol>	ited in support of this	application for registra	ation that is an	exclusive use			
I am the original submitte	er*; or			•			
I have obtained the writte	en permission of the c	original data submitter	to cite that stud	ly*			
3. I certify that, for each study cit study:	ted in support of this	application for registra	tion that is not	an exclusive use			
a.     I am the original data	submitter*; or						
I have obtained the w	ritten permission of th	ne original data submit	ter to cite that:	study*; or			
b. * I have notified in writ application and have o 3(c)(1)(D) and 3(c)(2) and (b) Commence ne requirement of FIFRA have notified are: (Ch	ffered to: (a) Pay con (D) of the Federal Ingotiations to determinated and the amount and	mpensation for those d secticide, Fungicide an le which data are subje	ata in accordand Rodenticide A ect to the comp	ce with section Act (FIFRA); ensation			
	e-all method or cite-a	eata Submitters List for Il option under Selectiv					
x  Those companies	that have submitted t	he studies which I have	e cited (Selectiv	e method*).			
<ul> <li>A Data Matrix identifying the cite-all method.)</li> </ul>	hese studies is attache	d. (Note: a Data Ma	trix is not requi	red under the			
Signature	Name and Title	· · · · · · · · · · · · · · · · · · ·	Date				
Clice Walker	Alice Walker, Regulatory Co		March 13	, 1998			
General Offer to Pa	y: I hereby offer and a	igree to pay compensation	on to other				
persons, with regard	to the approval of this a	pplication, to the extent	required.	u <sub>/</sub> U			
Signature	Name and Title		Date				

see raised form doted 9/1/98.

EPA Form 8570-29 (Rev-7-91)

1. Product !	Name 2. EPA Reg. N	lo./File Symbol:	. 3	. Formulator's Exe	mption Sele	cted:	4. Page cf 10	····
	Dicamba DMA Salt 42750-		_	No			<b>.</b>	
Albaugh 121 NE 1	t's Name and Address Inc. 18 <sup>th</sup> Street IA 50021	6. Application 1 February 19,	for Registration D 1998	ated:			7. Name of Activ	
8. Data Req	uirements	9. Source of Da	ta Satisfying Req	uirement	<del></del>			
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.
PRODUCT (	CHEMISTRY							
<b>83</b> 0.1550 <b>(61</b> -1)	Product Identity and Composition	Х	Now					
830.1600 (61-2(a))	Description of Materials Used to Produce the Product	Х	Now					
830.1620 (61-2(a))	Description of Production Process	х	Now	<del></del>				
830.1650 (61-2(a))	Description of Formulation Process	Х	Now					
<b>8</b> 30.1670 <b>(6</b> 1-2(b))	Discussion of Formation of Impurities	X	Now	<u></u>	<u> </u>			
<b>8</b> 30.1700 <b>(62</b> -1)	Preliminary Analysis	Х	Now					
830.1750 (62-2)	Certification of Limits	Х	Now					
<b>830</b> .1800 <b>(62-3)</b>	Analytical Methods to Verify Certified Limits	X	Now	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
830.6302 (63-2)	Color	Х	Now					
830.6303 (63-3)	Physical State	X	Now					
830.6304 (63-4)	Odor -	Х	Now	111111111111111111111111111111111111111				
830.7200 (63-5)	Melting Point						NR	
830.7220 (63-6)	Boiling Point						NR	
830.7300 (63-7)	Density, Bulk Density or Specific Gravity	Х	Now	111111111111111111111111111111111111111		· ·		
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method		<del>                                      </del>			117777	NR	

15/5

Product Name     Albaugh Dicamba DMA Salt	2. EPA Reg. No./File Symbol: 42750-	3. Formulator's Exemption Selected: No	4. Page of 10
5. Applicant's Name and Address Albaugh Inc. 121 NE 18th Street Ankeny, IA 50021	6. Application for Reg February 19, 1998	istration Dated:	7. Name of Active Ingredient: Dicamba DidA Salt

8. Data Req	uirements	9. Source of Da	,					
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No or EPA Accession No.
830.7860 (63-8)	Water Solubility: Generator Column Method						NR	
830.7950 (63-9)	Vapor Pressure						NR	
830.7370 (63-10)	Dissociation Constant						NR	
830.7550; 830.7560; 830.7570 (63-11)	Octanol-Water Partition Coefficient						NR	
830.7000 (63-12)	PH	х	Now	† 				
830.6313 (63-13)	Stability						NR	
830.6314 (63-14)	Oxidizing or Reducing Action	X	Now					
830.631 <i>5</i> (63-15)	Flammability						NR	
830.6316 (63-16)	Explodability						NR	
830.6317 (63-17)	Storage Stability	Х	Now					
830.7100 (63-18)	Viscosity	Х	Now				T	
830.6319 (63-19)	Miscibility.				-		NR	
830.6320 (63-20)	Corrosion Characteristics	Х	Now					
330.6321 63-21)	Dielectric Breakdown Voltage						NR	
30.7050 N/A)	UV/Visible Absorption						NR	

///

I. Product Name	2. EPA Reg. No./File Symbol:
Albaugh Dicamba DMA Salt	42750-

3. Formulator's Exemption Selected: No 4. Page of 10

5. Applicant's Name and Address

Albaugh Inc. 121 NE 18th Street Ankeny, IA 50021 6. Application for Registration Dated: February 19, 1998.

7. Name of Active Ingredient: Dicargba DNiA Salt

Ankeny, L		<del></del>						<del>_</del>	
8. Data Requ	zirements	9. Source of Da	9. Source of Data Satisfying Requirement						
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.	
ECOLOGIC	CAL EFFECTS								
71-1(a), (b)	Acute Avian Oral Toxicity: Quail or Duck			Sandoz Sandoz	OTP OTP		·	42774105 42918001	
71-2(a)	Acute Avian Dietary Toxicity: Quail			Velsicol Chemical Corp.	OTP			00025391	
71-2(b)	Acute Avian Dietary Toxicity: Duck			Velsicol Chemical Corp.	OTP <sup>1</sup>			00037638	
71-3	Wild Mammal Toxicity			· .	1		NR		
71-4(a)	Avian Reproductive Toxicity: Quail						NR		
71-4(b)	A'vian Reproductive Toxicity: Duck						NR		
71-5(a)	Simulated Terrestrial Field Study				T		NR		
71-5(b)	Actual Terrestrial Field Study						NR		
72-1(a), (b)	Fish Toxicity: Bluegill			Velsicol Chemical Corp.	OTP'			00034703	
72-1(c), (d)	Fish Toxicity: Trout			Velsicol Chemical Corp.	OTP'			00041272	
72-2(a), (b)	Freshwater Invertebrate Toxicity			Velsicol Chemical Corp.	OTP'			00052126	
72-3(a), (d)	Estuarine/Marine Fish Toxicity			Velsicol Chemical Corp.	OTP'			00025390	
72-3(b), (e)	Estuarine/Marine Mollusk Toxicity			Velsicol Chemical Corp.	OTP <sup>1</sup>			00034704	
72-3(c), (f)	Estuarine/Marine Shrimp Toxicity			Velsicol Chemical Corp.	OTP <sup>1</sup>			00034702	
72-4(a)	Early Life Stage: Fish	1					NR		
72-4(b)	Early Life Stage: Aquatic Invertebrate	1					NR		
72-5	Life Cycle Study: Fish			1	†		NR ·		
- 72-6	Aquatic Organism Accumulation						NR		

<sup>&</sup>lt;sup>1</sup> Offer-to-pay not applicable, data were submitted over 15 years ago.

1. Product i	No.	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del></del>	···			<b>-</b> .+
	Dicamba DMA Salt 42750-	No./File Symbol:	3	B. Formulator's Exe No	mption Sele	cted:	4. Page of 10	
5. Applicant Albaugh 121 NE 1		6. Application February 19,	for Registration I 1998	Dated:			7. Name of Acti Dicamba DM	-
Ankeny,	IA 50021							÷
8. Data Req	<del></del>	9. Source of Da	ta Satisfying Req	uirement	<del>=</del>			<del>-   `</del>
82. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.
72-7(a)	Simulated Field Test: Aquatic Organisms			· · · · · · · · · · · · · · · · · · ·			NR	
72-7(b)	Actual Field Test: Aquatic Organisms	1	·		·		NR	<del></del>
TOXICOLO	OGY	<del>, , , , , , , , , , , , , , , , , , , </del>	*************			<del>*                                    </del>	<del>-                                    </del>	<del> </del>
81-1	Acute Oral Toxicity: Rat	X	Now	· · · · · · · · · · · · · · · · · · ·		T	<u> </u>	<del>-  </del>
81-2	Acute Dermal Toxicity: Rat	X	Now	<del></del>	<del>                                     </del>		<u> </u>	·
81-3	Acute Inhalation Toxicity: Rat	X	Now	···	··· <del> </del>			
81-4	Primary Eye Irritation: Rabbit	X	Now		<del></del>		<del> </del>	-
81-5	Primary Dermal Irritation	. X	Now		<del></del>		1	
81-6	Dèrmal Sensitization	X	Now		· · · · · · · · · · · · · · · · · · ·			<del></del>
81-7	Acute Delayed Neurotoxicity: Hen					,	NR	•
81-8-SS	Acute Neurotoxicity: Mammal	1		Sandoz	OTP	<del>                                     </del>		42774104
82-1(a)	90-Day Feeding Study: Rodent		<del>                                     </del>	Velsicol Chemical Corp.	OTP <sup>1</sup>	**************************************	<u> </u>	00128093
82-1(b)	90-Day Feeding Study: Non-Rodent	· · · · · · · · · · · · · · · · · · ·	<del></del>	· <del>  - · · · · · · · · · · · · · · · · · · </del>	·	· ····	See 83-1(b)	· · · · · · · · · · · · · · · · · · ·
82-2	21-Day Dermal Toxicity			Velsicol Chemical Corp. Velsicol Chemical Corp.	OTP <sup>1</sup>			00128090 00128091
82-3	90-Day Subchronic Dermal Toxicity	<del> </del>			<del>                                     </del>		NR	
82-4	90-Day Inhalation Toxicity		<del></del>	Velsicol Chemical Corp.	OTP <sup>1</sup>	77 7 7 7		00032247
82-5(a)	90-Day Neurotoxicity: Hen		<del></del>	· <del> </del>	· <del> </del>	· · · · <del>- · · · · · · · · · · · · · · ·</del>	NR	<u> </u>
82-5(b)	90-Day Neurotoxicity: Mammal			Sandoz	OTP			43245210
83-1(a)	Chronic Feeding: Rat		<del></del>		<del>' </del>	<del></del>	See 83-5	
83-1(b)	Chronic Feeding: Non-Rodent			Sandoz	OTP		· · · · · · · · · · · · · · · · · · ·	40321102
83-2(a)	Oncogenicity: Rat		· · · · · · · · · · · · · · · · · · ·	·   · · · · · · · · · · · · · · · · · ·	·   · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Sec 83-5	

Velsicol Chemical Corp.

Sandoz

OTP<sup>1</sup>

OTP

Data Gap

00084024

42429401

83-3(b)

Oncogenicity: Mouse

Teratogenicity: Rabbit

Teratogenicity: Rat

83-2(b) 83-3(a)

1. Product N Albaugh [	ame 2. EPA Reg. N Dicamba DMA Salt 42750-	o./File Symbol:	3	. Formulator's Exe	mption Sele	cted;	4. Page of 10	
	's Name and Address nc. B <sup>th</sup> Street	6. Application 1 February 19,	for Registration E 1998		,		7. Name of Activ Dicamoa DM	
8. Data Requ	irements	9. Source of Da	ta Satisfying Req	uirement				
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.
83-4	2-Generation Reproduction: Rat			Sandoz	OTP			43137101
83-5	Combined Chronic and Oncogenicity: Rat			Velsicol Chemical Corp.	OTP <sup>1</sup>	-		00125333
84-2(a)	Mutagenicity: Gene Mutation			Velsicol Chemical Corp.		Public Literature		00143001
84-2(b)	Mutagenicity: Structural Chromosome Aberration		-	Sandoz	OTP		-	40321101
84-4	Mutagenicity: Other Genotoxic Effects		<del></del>	Velsicol Chemical Corp.		Public Literature		00143001
85-1	General Metabolism			Velsicol Chemical Corp. Velsicol	OTP <sup>1</sup>			00028261, 00028257,
	**************************************	† 		Chemical Corp. Velsicol Chemical Corp.	OTP <sup>1</sup>	<u> </u>		00023107,
			Ī	Velsicol Chemical Corp.	OTP'			00087668
85-2	Dermal Penetration	i					NR	
86-i	Domestic Animal Safety						NR	
	ALUATION: NON-TARGET PLANTS	,	,			<del>, -</del> .	T	_
122-1(a)	Tier I: Seed Germination and Seedling Emergence						See 123-1(a)	
122-1(b)	Tier 1: Vegetative Vigor						See 123-1(b)	
122-2	Tier 1: Aquatic Plant Growth						See 123-2	
123-1(a)	Tier 2: Seed Germination and Seedling Emergence			BASF Corp.	OTP	0		44307452
123-1(b)	Tier 2: Vegetative Vigor			BASF Corp.	OTP			44307452
123-2	Tier 2: Aquatic Plant Growth			Sandoz Sandoz Sandoz	OTP OTP OTP			42774107, 42774108, 42774109,
19		<u> </u>		Sandoz Sandoz	OTP		•	42774110,
	1	+		+ Sandoa	$\pm \mathbf{OTP}$	Į.		4277411

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1. Product i	Name 2. EPA Reg. N Dicamba DMA Salt 42750-	io./File Symbol:	3	3. Formulator's Exe No	mption Sele	cted:	4. Page of 10	
Albaugh	t's Name and Address Inc. 18 <sup>th</sup> Street	6. Application February 19,	for Registration I 1998	Dated:			7. Name of Acti Dicamba DM	
	IA 50021							
8. Data Req		9. Source of Da	ita Satisfying Req	uirement	<del></del>			,
8a.	8b. Name of Test	9a. Submitted	9b. Date	9c. Submitted	9d. P or	9e. Public	9f. NA, NR,	10. MRID No.
Guideline	obition of Just	by Applicant	Submitted by	by Other Firm	OTP	Literature	Waiver or	or EPA
Number		o , replicant	Applicant	of Cener Thin	*		Other	Accession No.
124-1	Terrestrial Field Study		" Topping	<del> </del>	<u> </u>	<del>-</del>	NR	
124-2	Aquatic Field Study				<del> </del>		NR	
REENTRY	· · · · · · · · · · · · · · · · · · ·	<u>.I</u>		<u></u>		I	<u> </u>	
132-1(a)	Foliar Residue Dissipation					l	Data Gap	
132-1(b)	Soil Residue Dissipation				<del>                                     </del>	· ·	NR	
133-3	Dermal Passive Dosimetry Exposure	x	ORETF				<u> </u>	·
133-4	Inhalation Passive Dosimetry Exposure	X	ORETF	<del></del> -	<u> </u>			
231	Dermal Exposure at Outdoor Sites		-				NR	
232	Inhalation Exposure at Outdoor Sites						NR	1 -
HAZARD E	VALUATION: NON-TARGET INSECTS	-			•			
141-1	Acute Contact Toxicity: Honey Bee					Old Public Literature		00036935
141-2	Toxicity of Residues on Foliage: Honey Bee				-		NR	-
141-5	Field Test: Pollinators			<del>-</del>			NR	
ENVIRONM	ENTAL FATE	<u> </u>	· ·	<del></del>		<u></u>		_ <del></del>
160-5	Chemical Identity	X	Now				T	1
161-1	Hydrolysis			Sandoz	OTP			40335501
161-2	Photodegradation in Water			Sandoz	OTP		1	42774102
161-3	Photodegradation on Soil			Sandoz	OTP			42774103
161-4	Photodegradation in Air						Waived	
162-1	Aerobic Soil Metabolism		-	Sandoz	OTP		Ī	43245207
162-2	Anaerobic Soil Metabolism			Sandoz	OTP.		<u> </u>	43245208
162-3	Anaerobic Aquatic Metabolism			Sandoz	OTP			43245208
162-4	Aerobic Aquatic Metabolism			<del>-</del>			Waived	-
163-1	Leaching/Adsorption/ Desorption		-	Sandoz	ОТР	-		43095301
163-2	Laboratory Volatility Study			Sandoz	OTP	_		41966602
163-3	Field Volatility Study						Reserved	
164-1	Soil Field Dissipation Study			Sandoz	OTP			42754101,
				Sandoz	OTP			42754102,
				BASF	OTP			44373708

(5×)

1. Product Na Albaugh D	arne 2. EPA Reg. No Dicamba DMA Salt 42750-	o./File Symbol:	3.	Formulator's Exer No	nption Sele	cted:	4. Page of 19	
5. Applicant' Albaugh Is 121 NE 18		6. Application f February 19,	for Registration D 1998		7. Name of Active Ingredient: Dicamba DMA Sait			
Ankeny, I/							**	2
8. Data Requ	irements	9. Source of Da	ta Satisfying Requ	uirement	,			,
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.
164-2	Aquatic Sediment Field Dissipation Study						Waived	
164-3	Forestry Field Dissipation Study						NR	<u></u>
164-5	Long Term Soil Dissipation Study						Reserved	
165-1	Confined Crop Rotation Study			Wellmark International	OTP			43698601
165-2	Field Rotational Crop Study						Reserved	-
165-3	Accumulation in Irrigated Crops						Waived	
165-4	Accumulation in Fish			Sandoz	ОТР		Waived	41966601
165-5	Accumulation in Non-Target Organisms						Reserved	
166-1	Small-Scale Prospective Groundwater Study						Reserved	
166-2	Small-Scale Retrospective Groundwater Study						NR	
166-3	Large-Scale Retrospective Groundwater Study						NR	
RESIDUE AN	D METABOLISM CHEMISTRY							
860.1100 (171-2)	Chemical Identity	х	Now					
860.1200 (171-3)	Directions for Use	Х	Now					label



.

1. Product Name	-
Albaugh Dicamba DMA	Salt

2. EPA Reg. No./File Symbol: 427503. Formulator's Exemption Selected: No 4. Page of 10

5. Applicant's Name and Address Albaugh Inc.

6. Applicati

6. Application for Registration Dated: February 19, 1998

7. Name of Active Ingredient: Dicaniba DMA Sala

121 NE 18th Street Ankeny, IA 50021

8. Data Requirements		9. Source of Data Satisfying Requirement							
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.	
860.1300 (171-4(a))	Nature of the Residue: Plants			Velsicol Chemical Corp.	OTP'			00022745,	
(171 ((4))				Velsicol	OTP <sup>1</sup>			00022753,	
				Chemical Corp. Velsicol	OTP1		į	00025344,	
				Chemical Corp. Velsicol	OTP <sup>1</sup>			00036921,	
				Chemical Corp. Velsicol	OTP <sup>1</sup>			00079708,	
				Chemical Corp. Velsicol	OTP'		d	00079747,	
				Chemical Corp. Velsicol	ОТР			00102945,	
				Chemical Corp. Velsicol	OTP <sup>1</sup>			00118473	
860.1300	Nature of the Residue: Livestock			Chemical Corp.	OTD			430.45201	
(171-4(b))	Nature of the Residue. Livestock			Sandoz	OTP			43245201,	
171-4(0))				Sandoz	OTP OTP			43245202,	
360.1340	Desides Analysis I Make J. Div.			Sandoz				43554205	
(171-4(c))	Residue Analytical Method: Plants			Sandoz	ОТР			42883201	
360.1340 171-4(d))	Residue Analytical Method: Animals			Wellmark International	ОТР			43461701,	
, ,				Wellmark International	OTP			43554205	
360.1380 171-4(e))	Storage Stability			Wellmark	OTP	<del></del>	Data Gap	43866601	
360.1400	Magnitude of Decides Webs E' 1			International	ļ			ND	
171-4(f, g, 1))	Magnitude of Residue: Water, Fish, and Irrigated Crops		·					NR	
360.1460 171-4(i))	Magnitude of Residue: Food Handling Establishments							NR	



1. Product Name	2. EPA Reg. No./File Symbol:	3. Formulator's Exemption Selected:	4. Page of 10
Albaugh Dicamba DMA Salt	42750-	No	

 Applicant's Name and Address Albaugh Inc.
 121 NE 18th Street Ankeny, IA 50021

6. Application for Registration Dated: February 19, 1998

7. Name of Active Ingredient: Dicamba DMA Selt

8a.	8b. Name of Test	9a, Submitted	9b. Date	9c. Submitted	9d. P or	9e. Public	9f. NA, NR,	10. MRID No.
Guideline Number	·	by Applicant	Submitted by Applicant	by Other Firm	OTP	Literature	Waiver or Other	or EPA Accession No.
860.1480	Magnitude of Residue:						Reserved	
(171-4(j))	Meat/Milk/Poultry/Eggs							
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials – Asparagus	<u>.</u>		Sandoz Velsicol Chemical Corp.	OTP OTP			43245206, 00025338
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Barley						Data Gap	
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Corn, Field						Data Gap	
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Cotton (Sodium salt only)			Velsicol Chemical Corp. Velsicol Chemical Corp.	OTP <sup>1</sup>			00118473, 00145248
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials – Grasses, Group				<b>—</b>		Data Gap	
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Millet	·		Velsicol Chemical Corp.	ΟΤΡ'			00025330
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Oats			Velsicol Chemical Corp. Velsicol Chemical Corp.	OTP'			00023687, 00028252
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials – Sorghum			Sandoz	ОТР			43245203
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials – Soybeans						Data Gap	
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials – Sugarcane			Sandoz	OTP		Data Gap	43245204
860.1500 (171-4(k))	Magnitude of Residue: Crop Field Trials - Wheat			Sandoz	ОТР		Data Gap	43274501
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed - Corn, Field			Sandoz	ОТР	·		41187301



1. Product Name Albaugh Dicamba DMA Salt	2. EPA Reg. No./File Symbol: 42750-	3. Formulator's Exemption Selected: No	4. Page of 19
5. Applicant's Name and Address 6. Application for Regi Albaugh Inc. February 19, 1998		istration Dated:	7. Name of Active Ingredient: Dicamba DMA Salt
121 NE 18th Street Ankeny, IA 50021			

8. Data Reg	uirements	9. Source of Da		· ·				
8a. Guideline Number	8b. Name of Test	9a. Submitted by Applicant	9b. Date Submitted by Applicant	9c. Submitted by Other Firm	9d. P or OTP	9e. Public Literature	9f. NA, NR, Waiver or Other	10. MRID No. or EPA Accession No.
860,1520 (171-4(1))	Magnitude of Residue: Processed Food/Feed – Cotton (Sodium salt only)	-	-	Velsicol Chemical Corp. Velsicol Chemical Corp.	OTP'			00118473, 00145248
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed – Sorghum, Grain			Sandoz Sandoz	ОТР	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		40547910, 43245205
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed - Sorghum, Sweet			Sandoz	ОТР			43245205
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed – Soybeans		<del></del>	· · · · · · · · · · · · · · · · · · ·			Data Gap	
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed - Sugarcane		<del></del>	Sandoz	ОТР		Data Gap	43245204
860.1520 (171-4(l))	Magnitude of Residue: Processed Food/Feed – Wheat		· · · · · · · · · · · · · · · · · · ·	Sandoz	ОТР		11.616.1	42675901
Spray Drift		· · · · · · · · · · · · · · · · · · ·	······································		<del></del>	<u> </u>	<b>4</b> ,,,	
201-1	Droplet Size Spectrum	Х	SDTF	Ţ	Ţ	<del></del>	Ţ · · <del>· · · · · · · · · · · · · · · · ·</del>	
201-2	Drift Field Evaluation	X	SDTF	<u> </u>			<u> </u>	<u> </u>



NIFT						-		
Please read instructions o	n reverse before comple	ting form.	<u> </u>	Form Appr	oved.	OMB No. 20	70-0080.	Approval expires 05-31-98
	U	nited States			x	Registra	tion	OPP Identifier Number
<b>ŞEPA</b>	Environmental	Protection	Agenc	γ	$\square$	Amenda		054.45
		ngton, DC 20460				Other		254415
	··	Application	for Pe	sticide - Sect	tion	l		
1. Company/Product Num			2.	EPA Product Man	•		3. Pro	posed Classification
Albaugh Inc./427		<del></del>		Joanne I. M	(ille	er	x	None Restricted
A1 Gamerny/Preduct /Non	<sup>Ne)</sup> Dicamba DMA Sa	alt	Pi	23				
5. Name and Address of A Albaugh, Inc.	Applicant (Include ZIP Co	de)						FIFRA Section 3(c)(3)
c/o Alice Walker			ـ ا	. /-	19129.	-73/1		mposition and labeling
811 Country Club			160	: PA Reg. No. <sup>51</sup>	5947	-l (now a	a BASF	reg. no.)
Senatobia, MS 38			[ ]			_		
Check if to	his is a new address				Bar	wel Her	bicide	<u> </u>
		<u></u>	Sectio	<u>n - II                                 </u>				<del></del>
Amendment - Expl	ain below.			1 1 '		s in response	to	
Resubmission in re	sponse to Agency letter	dated		Agency lett				<del></del>
\ <u>-</u>				느	- •			
Notification - Expla	in Delow.			Other - Exp	IAIN DE	-10W. 		· · · · · · · · · · · · · · · · · · ·
Explanation: Use addit	ional page(s) if necessar	y. (For section I	and Section	ı II.)				∵
<b>{</b>								
1								
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·								÷
			Sectio	n - 111				
1. Material This Product V	Vill Be Packaged In:							
Child-Resistant Packaging	Unit Packaging		Water Sol	uble Packaging		2. Type of	Container	
Yes*	Yes		<b>□</b> Y•	8		<u>x</u>	Motal	•
x No	X No		X No	•		<u>*</u>	Plastic Glass	•
Sertification must	If "Yes"	No. per	If "Yes"	No. per	_	1 🗀	Paper	
be submitted	Unit Packaging wgt	. container	Package v	wgt containe	r		Other (S	pecifyl
3. Location of Net Conten	ts Information	4. Size(s) Retai	l Container	· · · · · ·	5 <u>.</u> Lo	cation of Lab	el Directio	ns
	Container	1, 2-1/2,	5, 30,	55 gals.	x	On Label On Label	na accom	panying product
6. Manner in Which Label		Lithogra		Othe				
		A Paper gl	ued d					 <u></u>
Challenger of the	· :	-	Section	n - <b>IV</b>				The Court was
1. Contact Point (Comple	te items directly below	for identification	of individu	el to be contacted,	if nec	essary, to pro	ocess this	ecpsivotion.)
Name	<del></del>	т	îtle				Telephone	No. (include Area Code)
Alice Walker, Ph	.D.		Regula	tory Consult	ant	<u> </u>	601-56	32-5,995
	· · ·	Certificati	on			000	000	6. Date Application
	stements I have made or any knowingly false or r de law							్టి ్రి (Stamped)
2. Signature	^	٦,	Tide	<del></del>			<u> </u>	
alie	Walke	ر. ا	Regula	tory Consult	ant	1900	90 !	4
4. Typed Name		5.	. Date	··				(i,
Alice Walker, Ph	.D. ·			ry 19, 1998			ļ	,,, /,,
<u> </u>	<u>.</u>			10 mg (1 mg 1995) ;		· · · · · <u>· · _    </u>	<u> </u>	na introduction recognization and a significant

#### PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

<u>PAPERWORK REDUCTION ACT NOTICE:</u> Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20450.

<u>INSTRUCTIONS</u>: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form:

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager if known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c)-3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other pasticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

<u>SECTION II</u> - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a <u>specific EPA-registered product</u>. This section is <u>not to be</u> used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purposets) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
   Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of New Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Cirections Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contest Boint) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

1-5. Self-explanatory.

YASOM - MARK NOW AND THE

6. EPA Use Only.

39

# Alice Walker, Ph.D. REGULATORY CONSULTING • 811 COUNTRY CLUB DRIVE • SENATOBIA, MS 38668

### CERTIFIED MAIL

February 19, 1997

445027-00

Document Processing Desk (Appl) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460

Re:

Dicamba DMA Salt (EPA Reg. No. 42750--) UN Application for New Pesticide Registration

Attn: Joanne Miller (PM 23)

This letter will constitute an application by Albaugh, Inc. to register subject product containing the active ingredient dimethylamine salt of dicamba. In support of this application, we submit the following documents:

- (1) Application for New Pesticide Registration,
  - (2) Confidential Statement of Formula,
  - (3) Formulator's Exemption Statement w/attached proof of purchase of registered technical,
  - (4) Five (5) Copies of Proposed Labeling,

(5) Product Specific Chemistry (3 copies each)

44508701 a. Volume 1 of 8: Product Specific Chemistry for Dicamba DMA Salt (Guideline Nos. 830.1550, 830.1600, 830.1650, 830.1670 and 830.1750)

44602702 b. Volume 2 of 8: Product Chemistry for End-Use Liquids (EPA Subdivision D 63-2, 63-3, 63-4, 63-7, 63-12, 63-14 and 63-18), and

(6) Acute Toxicity Studies (3 copies each)

44502703 c. Volume 3 of 8: Acute Oral Toxicity Study in Rats

44502704d. Volume 4 of 8: Acute Dermal Toxicity Study in Rabbits

44509705 e. Volume 5 of 8: Acute Inhalation Toxicity Study in Rats

44602706 f. Volume 6 of 8: Primary Eye Irritation Study in Rabbits

44502707 g. Volume 7 of 8: Primary Dermal Irritation Study in Rabbits

44502708 h. Volume 8 of 8: Dermal Sensitization Study in Guinea Pigs

We are not including a Certification with Respect to Citation of Data form because all required data to support this application which qualifies for a formulator's exemption were generated by Albaugh and are enclosed.

Letter to Document Processing Desk February 19, 1998 Page Two

Walker

We trust you will find this application complete and in compliance with the requirements for registration under FIFRA. If you should have any questions during your review, please do not hesitate to contact me.

Sincerely,

Alice Walker, Ph.D.

Regulatory Consultant

AW/bh

Enclosures

cc: Glen O'Brien

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# U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

ALBAUGH, INC. 1517 N. ANKENY BLVD. ANKENY, IA 50021

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 02/25/98. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



# CERTIFIED MAIL

February 19, 1997

445027-00

Document Processing Desk (Appl) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460

Re: Dicamba DMA Salt (EPA Reg. No. 42750-+UW)
Application for New Pesticide Registration

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- (3) Formulator's Exemption Statement w/attached proof of purchase of registered technical,
- (4) Five (5) Copies of Proposed Labeling,
- (5) Product Specific Chemistry (3 copies each)

  44508701 a. Volume 1 of 8: Product Specific Chemistry for Dicamba DMA Salt

  (Guideline Nos. 830.1550, 830.1600, 830.1650, 830.1670 and 830.1750)

  44608702 b. Volume 2 of 8: Product Chemistry for End-Use Liquids (EPA Subdivision D 63-2, 63-3, 63-4, 63-7, 63-12, 63-14 and 63-18), and
- (6) Acute Toxicity Studies (3 copies each)

  44502703 c. Volume 3 of 8: Acute Oral Toxicity Study in Rats

  44502704d. Volume 4 of 8: Acute Dermal Toxicity Study in Rabbits

  44502705 e. Volume 5 of 8: Acute Inhalation Toxicity Study in Rats

  44602706 f. Volume 6 of 8: Primary Eye Irritation Study in Rabbits

  44502708 h. Volume 7 of 8: Primary Dermal Irritation Study in Rabbits

  44502708 h. Volume 8 of 8: Dermal Sensitization Study in Guinea Pigs

We are not including a Certification with Respect to Citation of Data form because all required data to support this application which qualifies for a formulator's exemption were generated by Albaugh and are enclosed.



Letter to Document Processing Desk February 19, 1998 Page Two

Walker

We trust you will find this application complete and in compliance with the requirements for registration under FIFRA. If you should have any questions during your review, please do not hesitate to contact me.

Sincerely,

Alice Walker, Ph.D. Regulatory Consultant

AW/bh

**Enclosures** 

cc: Glen O'Brien



United States Environmental Protection Agency Washington, DC 20460

# Formulator's Exemption Statement

(40 CFR 152.85)

	I EPA File	Symbol/Registration Number
Applicant's Name and Address		10-UN
Albaugh, Inc. 121 N.E. 18th Street	<u></u>	<u> </u>
Ankeny, IA 50021	Product 1	Name
,, 111 3001	<b>.</b>	mba DMA Salt
·	Date of C	onfidential Statement of Formula (EPA Form 8570-
	2-19	) <del></del> 98
(2) Of these, each active ingredient list ingredient in the manufacturing, formula ingredient, which is registered under FIF for at least each use for which my product (3) Indicate by checking (A) or (B) below (A) An accurate Confidential Statement attached to this statement. That form product name, the source of the activities.	ted in paragraph (4) is present solution or repackaging of another price is proposed to be labeled.  In which paragraph applies: Int of Formula (EPA Form 8570-4) The proposed in the proposed is the proposed to be labeled.	lely as the result of the use of that active oduct which contains that active is from another producer, and is labeled of the above identified product is pany name, registration number, and
is complete, current, and accurate an (4) The following active ingredients in t		lator's exemption.
**************************************		Source
Active Ingredient	Product Name	Registration Number
*Manufacturing process information	tion may be entitled to confid	I ential treatment*
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SignatQre , Ne	mation may be entitled to con ame and Title lice Walker, Ph.D.	nfidential treatment*

Regulatory Consultant

# Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 1.5 hours per response, including familiarization with the form, organizing the necessary information, and completing the form. Send any comments regarding the burden estimate or any other-aspect of this collection of information, including suggestions for reducing this burden to:

Chief, Information Policy Branch, PM-223 U.S. Environmental Protection Agency 401 M Street, S.W. Washington, DC 20460

and to

cara

Office of Management and Budget Paperwork Reduction Project (2070-0060) Washington, DC 20503

(0)

COST CONTRACTOR MANUFACTURE

February 19, 1998

U.S. Environmental Protection Agency Office of Pesticide Programs Registration Division (H7504C) 401 M Street, S.W. Washington, D.C. 20460

Attn: Ms. Joanne Miller (PM23)

Following is a July 31, 1997 invoice from and Albaugh's payment for same.

to Albaugh, Inc. for

Sincerely,

Alice Walker, Ph.D. Regulatory Consultant

AW/bh

ful

# RIN# 0495-0/ Ept Reg Tocket # 42750-40

Page is not included in this copy.
Pages 165 through 166 are not included.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Description of quality control procedures.  Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

# Alice Walker, Ph.D. REGULATORY CONSULTING • 811 COUNTRY CLUB DRIVE • SENATOBIA, MS 38668

# **CERTIFIED MAIL**

42750-UN

4

February 26, 1997

Document Processing Desk (Appl Follow-Up)) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460

Re:

Dicamba DMA Salt (EPA Reg. No. 42750- )

Product Chemistry for End-Use Liquids, Study 3859-97

GLP Compliance Statement Replacement Page

Attn: Joanne Miller (PM 23)

We submitted an application for registration of subject product on February 19, 1997. Subsequent to that time, Stillmeadow advised us of an error they made in the GLP Compliance Statement in their Product Chemistry report. Please see the enclosed apology from Stillmeadow and GLP Compliance Statement replacement.

Thank you for substituting this page in the chemistry report.

Sincerely,

Alice Walker, Ph.D.

Regulatory Consultant

in Walker

AW/bh

Enclosure

cc: Glen O'Brien

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February 23, 1998

Alice Walker, Ph.D. 811 Country Club Drive Senatobia, MS 38668

RE: Study 3859-97, Product Chemistry for End-Use Liquids

Dear Dr. Walker:

STILLMEADOW, Inc. regrets that an error was made on the GLP Compliance Statement included with the final report for Study 3859-97, Product Chemistry for End-Use Liquids. This study was conducted on the product Dicamba DMA Salt.

We inadvertently listed exceptions to GLP compliance for sections 160.105(a) and 160.31(d). These sections do not apply to this study because of the nature of the testing and should not have been taken as exceptions to GLP compliance. We regret this error and the inconvenience it causes you, but assure you that it does not compromise the study in any way.

Enclosed, please find a corrected GLP Compliance Statement for your submission.

Sincerely,

Weston Anderson Study Director STILLMEADOW, Inc.





# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY -

WASHINGTON, D.C. 20460

alfangh Inc. c/o alice Walker, Ph. L. 811 Country Club Dine Senatabia, M5 38668

PRODUCT NAME: Dicarta DMA Salf COMPANY NAME: alfaugh, Inc

OPP IDENTIFICATION NUMBER: 2544/5

EPA FILE SYMBOL: 42750-UN EPA RECEIPT DATE: 2/25/98

SUBJECT: RECEIPT OF APPLICATION FOR A NEW REGISTRATION

#### DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for a new registration and it has passed an administrative screen for completeness.

Please note that this is only a notification of receipt of your application. This is only the first step in the application process, and does NOT constitute approval.

If you have any questions please contact Joanne Miller,

PM 23, at (203) 305-6224.

Sincerely,

Front End Processing Staff Information Services Branch

Information Resources & Services Division

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